



# GROUTS, SILICONES, FINISHING TRIMS

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# **GROUTS, SILICONES, FINISHING TRIMS**

# **Classification of grouts**

Grouts are classified in accordance to PN-EN 13888 Grouts for tiles. Requirements, evaluation of conformity, classification and designation.

Main requirements	CG1 - cement grout of standard setting	CG 2 - cement grout of enhanced parameters with additional requirements (reduced water absorption and increased resistance to abrasion)	<b>RG</b> - grout based on reactive resins
ATLAS GROUTS	-	ATLAS ARTIS GROUT ATLAS TIGHT GROUT ATLAS WIDE GROUT ATLAS DECORATIVE GROUT	ATLAS EPOXY GROUT
Resistance to abrasion	≤ 2,000 mm <sup>3</sup>	≤ 1,000 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>
Flexural strength	≥ 3.5 N/mm <sup>2</sup>	≥ 3.5 N/mm <sup>2</sup>	≥ 30 N/mm <sup>2</sup>
Compressive strength	≥ 15 N/mm <sup>2</sup>	≥ 15 N/mm²	≥ 45 N/mm²
Shrinkage	≤ 2 mm/m	≤ 2 mm/m	≤ 1.5 mm/m
Water absorption after 30 minutes	≤ 5 g	≤ 2 g	-
Water absorption after 240 minutes	≤ 10 g	≤ 5 g	≤ 0.1 g

# Consumption

The grout consumption for a given surface can be calculated according to the formula:

- $z = (a_1 + a_2)/(a_1 x a_2) x S x b x c x g$
- z amount of grout needed [kg] a, and a, – tile length and width [m]
- S surface to be grouted [m<sup>2</sup>]
- **b** average joint depth [m]
- **c** joint width [m]
- g grout density [kg/m<sup>2</sup>]

(Note: the formula does not consider loss of material)

Density (g) of particular grouts is listed in their technical data sheets.

# Modern technologies used in ATLAS grouts



GUARANTEED COLOUR – owing to the use of special, strictly selected inorganic pigments, additionally protected against degradation by hydrophobic polymer, grouts keep durable and intensive colours for years.



**PEARL EFFECT** – the use of structural and coat hydrophobic additives protects the surface against penetration of dirt and discolouration resulting from use.



BIO BARRIER AG+ - owing to the use ions of silver grouts hold antibacterial properties.



MYCO PROTECT - - the addition of bio active substances protects grouts against development of fungi, mould and algae.



100% TIGHTNESS – owing to very low absorptiveness the product is resistant to water.



GLITTER EFFECT – special brocade provides the cladding with unique and decorative appearance. Appropriately selected colourful particles make the grout glitter. The effect intensiveness depends on the light angle and its intensity.

PRODUCT	ATL	AS ARTIS GROUT	ATLAS DECORATIVE GROUT	ATLAS GROUT/ AVAL EXTRA GROUT	ATLAS WI	DE GROUT	ATLAS EPOXY GROUT
	Fine	aggregate grout	Decorative grout with glitter effect	Fine aggregate cement grout	Coarse aggrega	te cement grout	Two-component grout
Reference document:				PN-EN 13888:2010			
Grout class		CG2 WA	CG2 WA	CG2 WA	CG2	WA	RG
			TECHNICAL I	DATA			
Mixing ratio water/dry mix [l/kg]		0.21-0.22	0.22-0.24	0.28-0.29	appro	x. 0.25	n/a
Min/max joint thickness [mm]		1-25	1-15	1-7	4-	16	1-10
Temperature during application [°C]		5-35	5-35	5-25	5-	25	10-25
Pot life [min]		40	120	120	1.	20	45
Initial cleaning [min]		30	30	10	1	0	5
Final cleaning [min]		180	180	30	2	0	20
Foot traffic [h]		3	24	24	2	.4	24
Full load [days]		1	1	1		1	7
Full chemical resistance [days]		-	-	-		-	7
Improved colour durability		$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$
Pearl Effect		$\checkmark$	$\checkmark$	$\checkmark$			
Myco Protect		$\checkmark$	$\checkmark$	$\checkmark$	•	(	$\checkmark$
Bio Barrier		$\checkmark$		$\checkmark$			
Colours		40	5	44		7	12
PRODUCT							
Reference d	ocument	SILICON	E ATLAS ARTIS	SILICONE ATLAS SILTON PN-FN 15651-1:2013	S	SILICONE AVAL EXTRA	
	ocument			PN-EN 15651-2:2013 PN-EN 15651-3:2013			
Hardenin	g system	i	acetate	acetate			acetate
and ambient temperature during v	work [°C]		5-40	5-40		5-40	
Temperature resistance after harde	ning [°C] th [mm]	from	-50 to +180	from -50 to +180		1	rom -50 to +180
Joint wid	lth [mm]		4-25	4-25		4-25	
Pot I	ife [min]		15	15			15
Foot t	raffic [h]		3	3			3
Improved colour d	lurability		<u></u>	24			27
Мус	o Protect		$\checkmark$	$\checkmark$			$\checkmark$
Colours		38 +	transparent				38 + transparent



ATLAS TIGHT GROUT has been designed for the most demanding users, appreciating aesthetics, functionality, safety and durability.

Owing to innovative recipe containing properly selected components ATLAS TIGHT GROUT ensures:

 safety of use – owing to the elimination of microscratches and cracks, discolouration and efflorescence during application and in long term,

 hygiene and safety of use based on hybrid action of bio active substances and ions of silver – the grout protects against development of mould, algae and bacteria,

 high resistance to UV radiation owing to the use of special, strictly selected inorganic pigments, additionally protected against degradation by hydrophobic polymer which makes the grouts durable and intensive in time,

• high resistance to washing, scrubbing and abrasion as well as cleaning agents, which makes the grout maintenance easy during whole period of use.

# **Properties**

**GUARANTEED COLOUR** – durable and intensive colours for years – pigments of high resistance to UV radiation additionally protected by special additives.

**PEARL EFFECT** – the use of structural and coat hydrophobic additives protects the surface against penetration of dirt and discolouration resulting from use. **MYCO PROTECT** – the addition of bio active substances protects the grout

against development of fungi, mould and algae. BIO BARRIER AG+ - owing to the use ions of silver the grout holds antibacterial

properties.

Very high mechanical resistance – even to medium and high operation loads, including intensive cladding use, frequent scrubbing and abrasion. The abrasion resistance is 8 times higher than the PN-EN 13888 standard requirements for grouts of higher category – A.

Very low water absorption – absorbability 3 times lower after 30 minutes and 4 times lower after 240 minutes than the standard PN-EN 13888 requirements for grouts of higher category – W.

Range of use – for any cladding on any substrate type, indoors and outdoors. Recommended for dry, damp and wet rooms, on floor heating systems, deformable substrates, façades, etc.

Improved adhesion to tile edges – strong adhesion to edges of various tile types, even in case of high operation loads or cladding thermal deformations. Smooth surface.

Recommended for grouting cladding in drinking water reservoirs, food industry, healthcare buildings, nurseries, kindergartens, etc.

Highly resistant to temperatures from -30° to +80°C.

Manufactured in 44 colours – matching the colours of ATLAS grouts, silicones and trims. The range of colours depends on the packaging type. Please check the pattern of colours in the product data sheet on www.atlas.com.pl/en.

# ATLAS TIGHT GROUT (1-7 mm) fine-aggregate cement grout

- for any size of ceramic, stone and glass tiles
- resistant to discolouration and efflorescence, bacteria and mould
- smooth, highly flexible, resistant to dirt and damage
- particularly recommended on difficult substrates, e.g. terraces, balconies and floor heating systems
- for use in residential, service, commercial and public access buildings



#### Use

Grouting ceramic and stone cladding: stone, terracotta, monocottura, clinker, cotto, porcelain-gres tiles, tiles not susceptible to discolouration, ceramic and glass mosaic, glass tiles resistant to scratching, glass bricks, decorated tiles with delicate pattern, mirrors, mirror tiles and other surfaces susceptible to scratching, metal tiles and aluminium sheets, natural stone, e.g. marble.

Note. When grouting mirrors, mirror tiles and other surfaces susceptible to scratching, decorated tiles with delicate pattern or natural stone (e.g. marble), one should check the grout influence on a tile individually.

Grouting small, medium and large size cladding - small and medium size tiles  $(< 0.1 \text{ m}^2)$ , large size tiles  $(< 0.25 \text{ m}^2)$ , slim-type tiles. Grouting cladding fixed on standard and deformable as well as difficult substrates:

 - concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements; walls made of cellular concrete, gypsum blocks;

- cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of plasterboards, incl. fireplace casing;

- floors made of wood, OSB, dry gypsum screed.

Grouting tiles on vertical and horizontal surfaces, indoors and outdoors in:

 residential single- and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, bathrooms, showers, laundries, garages, on terraces, balconies, stairs, plinths;

 - public access and commercial buildings – in nurseries, kindergartens, schools, lecture halls, storage rooms, sacral buildings, hospitals (incl. rooms where sterilization with UV lamps is required), pharmacies, car showrooms;

- drinking water reservoirs, fountains;

 transport infrastructure buildings – railway and bus stations, airports - salesrooms, waiting rooms, auxiliary rooms;

- production and industrial buildings – storage rooms and warehouses, wash rooms, production premises intensively washed with water.

ATLAS TIGHT GROUT is manufactured in the form of dry mix of cement binder, specially selected aggregates, fillers, pigments and modifying agents of the highest quality..

Bulk density (of dry mix)	approx. 1.15 kg/dm <sup>3</sup>
Wet density (after mixing)	approx. 1.80 kg/dm <sup>3</sup>
Dry density (after setting)	approx. 1.65 kg/dm <sup>3</sup>
	0.28 – 0.29 l/1 kg
Mixing ratio (water/dry mix)	0.56 – 0.58 l/2 kg
	1.40 – 1.45 l/5 kg
Min./max. joint thickness	1 mm / 7 mm
Mortar preparation temperature,	
substrate and ambient temperature during	from +5°C to +25°C
work	
Maturing time	approx. 5 minutes
Pot life	approx. 2 hours
Grouted cladding cleaning	after 10 – 30 minutes
Foot traffic	after approx. 24 hours

The time shown in the table is recommended for the application in temperature 23  $^\circ$  C and humidity 55% (approx.).

# **Technical requirements**

The product conforms to PN-EN 13888:2010 standard. Declaration of Conformity No. 009.

PN-EN 13888:2010	Cement mortar for filling joints, with increased parameters: high abrasion resistance and reduced water absorption.	
Class	CG2 WA	
Flexural strength in dry conditions	≥ 3.5 N/mm <sup>2</sup>	
Flexural strength after freeze-thaw cycles	≥ 3.5 N/mm <sup>2</sup>	
Compressive strength in dry conditions	≥ 15 N/mm²	
Compressive strength after freeze-thaw cycles	≥ 15 N/mm <sup>2</sup>	
Shrinkage	≤ 2 mm/m	
Resistance to abrasion	≤ 1000 mm <sup>3</sup>	
Water absorption		
- after 30 min.	≤ 2 g	
- after 240 min.	≤ 5 g	

The product has been given the Hygienic Certificate by the National Institute of Hygiene, the Radiation Hygiene Certificate. The product has been given the marketing authorization for a biocide no. 5873/14

# Grouting

#### Substrate preparation

Carefully clean the joints between tiles. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. One can begin grouting only when the adhesive sets, not earlier than 24 hours since fixing the tiles. In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, one can begin grouting already after 4 hours. Directly before grouting, clean the surface of tiles with damp sponge and wet the joints slightly in order to limit and unify the substrate absorptiveness.

#### Mortar preparation

Pour the mortar from the bag into a container with the suitable amount of water (see Technical Data for ratio) and mix until homogenous. You can do it manually or mechanically. The mortar can be used after 5 minutes and remixing. It should be used up within 2 hours.

#### Grouting

Apply the mortar deep and tightly into the joints with the use of a rubber spatula. Move the spatula diagonally to the edges of tiles and held at ca. 45° to the tiles surface.

#### Cleaning

Cleaning can be carried out after 10 - 30 minutes. Use damp, hard sponges with larger pores. For at least 3 days, the mortar must not be exposed to precipitation, low temperatures (below +5 °C) and extensive air humidity. The grout should be protected against rapid drying. In order to preserve the optimum setting conditions for the grout, the fresh joints should be kept slightly moist, e.g. by sprinkling the surface with clean water. The actual colour of grout is set after drying, after approx. 2 - 3 days.

#### Cladding use

Foot traffic is possible after 24 hours since grouting. As an additional protection against soiling, it is recommended (when the grout dries completely, i.e. after approx. 2 weeks) to apply ATLAS DELFIN protective agent.

# Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

 $z = (a1 + a2)/a1 \cdot a2 \times S \times b \times c \times g$ 

z – amount of grout needed [kg]

a1 and a2 - tile length and width [m]

S – surface to be grouted

**b** – joint depth [m]

c – joint width [m]

 $\mathbf{g}$  – grout density [kg/m<sup>2</sup>] – for ATLAS TIGHT GROUT g = 1650 Examples of consumption:

Tile size	Width of joint	Depth of joint	Consumption
The Size	[mm]	[mm]	[ [kg/m²]
0,02 m x 0,02 m	2.0	2.0	approx. 0.65
0,10 m x 0,10 m	3.0	7.5	approx. 0.75
0.30 m x 0.30 m	4.0	7.5	approx. 0.35
0.30 m x 0.60 m	5.0	7.5	approx. 0.30
0.50 m x 0.50 m	5.0	7.5	approx. 0.25
0.60 m x 0.60 m	5.0	7.5	approx. 0.20

# Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration.
- In order to avoid various colour shades, it is recommended to use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- Addition of inappropriate amount of water to the mortar can cause deterioration
   of its quality and lead to discolouration.
- The differences in the depth of the joints, or washing the tiles too early may cause uneven colour shade on the grout surface.
- In joints located in particular parts of cladding (internal and external corners, expansion joints), finishing beads should be used, e.g. ATLAS EDGE TRIMS or filling with permanently elastic materials e.g. ATLAS ARTIS silicone.
- Water reservoirs designated for drinking water should be washed with water after the product ageing.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the grout of the same manufacturing date and the same batch number for each individual surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS SZOP agent.
- Contains cement, 2-Octyl-2H-isothiazolin-3-one. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Follow the instructions of the Safety Data Sheet.
- The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 15 months (for paper bags) and 24 months (for foil bags) from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix  $\le 0.0002\%$ .

# Packaging

Paper bags: 2 kg, 5 kg Pallet: 1000 kg in 2 kg bags, 1000 kg in 5 kg bags Plastic bags: 2 kg, 5 kg Cardboard cartons: 10 x 2 kg, 4 x 5 kg Pallet: 36 cartons - 720 kg

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations. At the time of publication of this product data sheet all previous one become void. Date of update: 2016-02-18







# ATLAS WIDE GROUT (4-16 mm) coarse-aggregate cement grout

- for ceramic, gres-porcelain and stone tiles
- for grouting masonry work made of bricks, blocks, glass bricks
- on plinths, fences, communication routes

4-16

highly resistant to scratches and cracks



#### Use

For all types of tiles in wet, damp and dry places- particularly outdoors, but also in bathrooms, kitchens, corridors, on stairs.

Recommended for large size tiles – on plinths, fences, small architecture, communication routes, etc.

For grouting masonry work - made of bricks, blocks, glass bricks.

**Plastification and extending the range of use possible** – after mixing with ATLAS ELASTIC EMULSION, the mortar can be used for grouting tiles on balconies, terraces, façades and wall or floor heating systems.

**Element of the tiling system** – in combination with corresponding in colour ATLAS silicones, finishing trims and other grouts.

Types of joined elements – medium and large size; ceramic (glazed tiles, terracotta, gres-porcelain, bricks, hollow blocks), cement, concrete, stone and glass blocks.

Types of substrates under the tiles – cement, cement-lime and gypsum plasters, rough walls, cement and anhydrite screeds.

# Properties

**MYCO PROTECT** – creates unfavorable conditions for fungi and algae growth owing to low absorption and acid-alkaline reaction.

**Improved bonding to tile edges** – strong bonding to edges of various tile types, even in case of significant cladding deformation; no shrinkage cracks during setting.

With coarse aggregate – the joint surface has natural appearance, matching cement, stone tiles, etc.

High mechanical resistance – against cracks, scratches and abrasion. Low water absorption.

7 colours – white, beige, brick red, dark brown, grey, dark grey and graphite, matching the colours of ATLAS grouts, silicones and trims.

# **Technical data**

ATLAS WIDE GROUT is manufactured as a dry mix of high quality cement binder, specially selected aggregates, fillers, pigments and modifiers.

Bulk density (of dry mix)	approx. 1.40 kg/dm <sup>3</sup>	
Mass bulk density (after mixing)	approx. 1.85 kg/dm <sup>3</sup>	
Dry density (after setting)	approx. 1.70 kg/dm <sup>3</sup>	
	approx. 0.25 l/1 kg	
Mixing ratio (water/dry mix)	approx. 1.25 l/5 kg	
	approx. 6.25 l/25 kg	
Min./max. joint thickness	4 mm / 16 mm	
Mortar preparation temperature,		
substrate and ambient temperature	from +5°C to +25°C	
during work		
Maturing time	approx. 5 minutes	
Pot life	approx. 2 hours	
Grouted cladding cleaning	after 10 – 20 minutes	
Foot traffic	after approx. 24 hours	
Full load	after approx. 24 hours	

The time shown in the table is recommended for the application in temperature 23  $^{\circ}$  C and humidity 55% (approx.).

#### **Technical requirements**

The product conforms to PN-EN 13888:2010 standard. Declaration of Conformity No. 031.

PN-EN 13888:2010	Cement mortar for filling joints, with increased parameters: high abrasion resistance and reduced water absorption.
Class	CG2 WA
Flexural strength in dry conditions	≥ 3.5 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	≥ 3.5 N/mm <sup>2</sup>
Compressive strength in dry con- ditions	≥ 15 N/mm <sup>2</sup>
Compressive strength after freeze- -thaw cycles	≥ 15 N/mm²
Shrinkage	≤ 2 mm/m
Resistance to abrasion	≤ 1000 mm <sup>3</sup>
Water absorption - after 30 min. - after 240 min.	≤ 2 g ≤ 5 g

The product has been given the Radiation Hygiene Certificate.

# Grouting

# Substrate preparation

Carefully clean the joints between tiles. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. One can begin grouting only when the adhesive sets, not earlier than 24 hours since fixing the tiles. In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, one can begin grouting already after 4 hours. Directly before grouting, clean the surface of tiles with damp sponge and wet the joints slightly in order to limit and unify the substrate absorptiveness.

# Mortar preparation

Pour the mortar from the bag into a container with the suitable amount of water (see Technical Data for ratio) and mix until homogenous. You can do it manually or mechanically. The mortar can be used after 5 minutes and remixing.

When adding ATLAS ELASTIC EMULSION, pour the mortar into the container with the dispersed emulsion, keep the ratio: 10 kg of dry mix with 1 kg of emulsion and 1.7 I of water. Continue the application as above. In both cases the mixed grout should be used up within 2 hours.

# Application

Apply the mortar deep and tightly into the joints with the use of a rubber spatula. Move the spatula diagonally to the edges of tiles and held at ca. 45° to the tiles surface.

# Cleaning

Cleaning can be carried out after 10 - 20 minutes. Use damp, hard sponges with larger pores. For at least 3 days, the mortar must not be exposed to precipitation, low temperatures (below +5 °C) and extensive air humidity. The grout should be protected against rapid drying. In order to preserve optimum setting conditions for the grout, fresh joints should be kept slightly moist, e.g. by sprinkling the surface with clean water. The actual colour of grout is set after drying, after approx. 2 - 3 days.

# Cladding use

Foot traffic is possible after 24 hours since grouting. As an additional protection against soiling, it is recommended (when the grout dries completely, i.e. after approx. 2 weeks) to apply ATLAS DELFIN protective agent.

# Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

 $z = (a1 + a2)/a1 \cdot a2 \times S \times b \times c \times g$ 

z – amount of grout needed [kg]

- a1 and a2 tile length and width [m]
- S surface to be grouted
- **b** joint depth [m]
- **c** joint width [m]

**g** – grout density  $[kg/m^2]$  – for ATLAS WIDE GROUT g = 1700 Examples of consumption:

Tile size	Width of joint [mm]	Depth of joint [mm]	Consumption [kg/m²]
0.45 m x 0.45 m	4.0	7.5	approx. 0.25
0.60 m x 0.60 m	5.0	7.5	approx. 0.20

# Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration.
- In order to avoid various colour shades, it is recommended to use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- Addition of inappropriate amount of water to the mortar can cause deterioration
   of its quality and lead to discolouration.
- The differences in the depth of the joints, or washing the tiles too early may cause uneven colour shade of the grout surface.
- In joints located in particular parts of cladding (internal and external corners, expansion joints), finishing beads should be used, e.g. ATLAS EDGE TRIMS or filling with permanently elastic materials e.g. ATLAS SILTON S silicone.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS SZOP agent.
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Follow the instructions of the Safety Data Sheet.
- The mortar must be transported and stored in tightly sealed bags, in dry conditions (most preferably on pallets). Protect against humidity. Shelf life in conditions as specified is 12 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.</li>

# Packaging

Paper bags: 5 kg, 25 kg Pallet: 1,000 kg in 5 kg bags, 1,050 kg in 25 kg bags

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous one become void. Date of update: 2015-04-29







ATLAS ARTIS grout is intended for the most demanding users appreciating aesthetics, functionality, safety and durability. The widest available range of colours which meets current trends and enables to choose grout matching individual likes and room characteristics.

Owing to innovative recipe containing properly selected components ATLAS ARTIS grout ensures:

• safety of use – owing to the elimination of microscratches and cracks, discolouration and efflorescence during application and in long term operation – as the result of content of selected aggregates and special cement mix,

 hygiene and safety of use based on hybrid action of bio active substances and ions of silver – the grout protects against development of mould, algae and bacteria, even in case of frequent surface damp, possibility of application with any type of tiles, owing to high adhesion and vast joint width range (1-25 mm),
 high resistance to UV rays owing to the use of special, strictly selected inorganic pigments, additionally protected against degradation by hydrophobic polymer, which makes the grouts durable and intensive in time,

• high resistance to washing, scrubbing and abrasion as well as cleaning agents, which makes the grout maintenance easy during whole period of use.

# **Properties**

**GUARANTEED COLOUR** – owing to the use of special, strictly selected inorganic pigments, additionally protected against degradation by hydrophobic polymer, the grouts keep durable and intensive colours for years.

**PEARL EFFECT** – very low absorptiveness (4 times lower after 30 minutes and 6 times lower after 240 minutes than the PN-EN 13888 standard requirement) – the use of structural and coat hydrophobic additives protects the surface against penetration of dirt and discolouration.

MYCO PROTECT – the addition of bio active substances protects the grout against development of fungi, mould and algae.

**BIO BARRIER AG+** - owing to the use ions of silver the grout holds antibacterial properties.

**COLOR PROTECT** – extends colour durability – protects against discolouration and efflorescence (the grout is manufactured on aluminium cement base), increases resistance to dirt, UV rays, oils and detergents; the uniformity of the colour is guaranteed by the exceptional homogeneity of the mortar and uniform distribution and granulation of pigments.

Allows obtaining perfectly smooth surface – contains very fine aggregate. Short setting time – light foot traffic is possible already 3 hours since grouting, which significantly speeds up the final cleaning of the cladding and its commissioning; in combination with Atlas UNI-GRUNT and Atlas MIG 2 or Atlas PLUS EXPRESS adhesives forms a set of products for fast tiling.

Easy in preparation, comfortable and quick in application – divided package enables individual arrangement of work to meet one's preferences and habits. Wide range of use – can be used with any cladding on any substrate type, indoors and outdoors. Recommended for dry, damp and wet rooms, onto floor heating and deformable substrates.

Holds exceptional abrasion resistance – the abrasion resistance is 8 times higher than the PN-EN 13888 standard requirements for supplementary parameters.

# ATLAS ARTIS GROUT (1-25 mm) highly flexible fine aggregate grout

- fast-setting foot traffic possible after 3 hours
- resistant to discolouration and efflorescence
- easy to keep clean, resistant to bacteria and mould
- palette of 40 durable colours
- for any type of ceramic cladding, natural stone, glass mosaic



Recommended for grouting in drinking water reservoirs, food industry, healthcare buildings, nurseries, kindergartens, etc.

Highly resistant to temperatures from -30° to +80°C.

Manufactured in 40 colours – matching the colours of ATLAS grouts, silicones and trims. Please check the pattern of colours in the product data sheet on www.atlas.com.pl/en.

#### Use

Grouting ceramic and stone cladding: stone, terracotta, monocottura, clinker, cotto, porcelain-gres tiles, ceramic and glass mosaic, glass bricks, metal tiles and aluminium sheets, tiles susceptible to discolouration.

**Note.** When grouting mirrors, mirror tiles and other surfaces susceptible to scratching, decorated tiles with delicate pattern or natural stone (e.g marble), one should check the grout influence on a tile individually.

Grouting small, medium and large size cladding - small and medium size tiles  $(< 0.1 \text{ m}^2)$ , large size tiles  $(< 0.25 \text{ m}^2)$ , slim-type tiles. Grouting cladding fixed on standard and deformable as well as difficult substrates:

- concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements; walls made of cellular concrete, gypsum blocks;

- cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of plasterboards, incl. fireplace casing;

- floors made of wood, OSB, dry gypsum screed;

- steel, plastic substrates.

Grouting tiles on vertical and horizontal surfaces, indoors and outdoors in: - residential single- and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, bathrooms, showers, laundries, garages, on terraces, balconies, stairs, plinths, façades;

 public access and commercial buildings — in nurseries, kindergartens, schools, lecture halls, storage rooms, sacral buildings, hospitals (incl. rooms where sterilization with UV lamps is required), pharmacies, laboratories\*, industrial kitchens\*,garages and car parks, diagnostic stations, car showrooms, car washes, industrial laundries\*;

- pool basins, saunas, jacuzzi, drinking water reservoirs, fountains;

- transport infrastructure buildings – railway and bus stations, airports - platforms, communication routes, salesrooms, waiting rooms, auxiliary rooms;

 production and industrial buildings – food, fruit and vegetable industry (areas with no aggressive chemical load), storage rooms and warehouses, wash rooms, production premises intensively washed with water.

Note. In case of rooms marked with "\*" determination of chemical loads and confirmation of resistance needed.

Note. In the sterile rooms in healthcare objects, operating theatres, on beaches around pools, in balneotechnique objects as well as in production areas with aggressive chemical load, accumulator rooms, etc., we recommend the use of ATLAS EPOXY Grout.

ATLAS ARTIS GROUT is manufactured in the form of dry mix of cement binder, specially selected aggregates, fillers, pigments and modifying additives of the highest quality.

Bulk density (of dry mix)	approx. 1.2 kg/dm <sup>3</sup>
Wet density (after mixing)	approx. 1.80 kg/dm <sup>3</sup>
Dry density (after setting)	approx. 1.65 kg/dm <sup>3</sup>
	0.21 – 0.22 l/1 kg
Mixing ratio (water/dry mix)	0.42 – 0.44 l/2 kg
	1.05 – 1.10 l/5 kg
Min./max. joint thickness	1 mm / 25 mm
Mortar preparation temperature,	
substrate and ambient temperature during	from +5°C to +35°C
work	
Maturing time	after approx. 5 minutes
Pot life	after approx. 40 minutes
Initial cleaning	after approx. 30 minutes
Final cleaning	after approx. 3 hours
Light foot traffic	after approx. 3 hours
Full load	after approx. 24 hours

The time shown in the table is recommended for the application in temperature 23°C and humidity 55% (approx.).

# **Technical requirements**

The product conforms to PN-EN 13888:2010 standard. Declaration of Conformity No. 093.

PN-EN 13888:2010	Cement mortar for filling joints, with increased parameters: high abrasion resistance and reduced water absorption.	
Class	CG2 WA	
Flexural strength in dry conditions	≥ 3.5 N/mm <sup>2</sup>	
Flexural strength after freeze-thaw cycles	≥ 3.5 N/mm <sup>2</sup>	
Compressive strength in dry conditions	≥ 15 N/mm <sup>2</sup>	
Compressive strength after freeze- -thaw cycles	≥ 15 N/mm <sup>2</sup>	
Shrinkage	≤ 2 mm/m	
Resistance to abrasion	≤ 1000 mm <sup>3</sup>	
Water absorption		
- after 30 min.	≤ 2 g	
- after 240 min.	≤ 5 g	

The product has been given the Hygienic Certificate by the National Institute of Hygiene and the Radiation Hygiene Certificate. The product has been given the marketing authorization for a biocide no. 5921/14.

# Grouting

#### Substrate preparation

Carefully clean the joints between tiles. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. One can begin grouting only when the adhesive sets, not earlier than 24 hours since fixing the tiles. In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, one can begin grouting already after 4 hours. Directly before grouting, clean the surface of tiles with damp sponge and wet the joints slightly in order to limit and unify the substrate absorptiveness.

#### Mortar preparation

Pour the mortar from the bag into a container with the suitable amount of water (see Technical Data for ratio) and mix until homogenous. You can do it manually or mechanically. The mortar can be used after 5 minutes and remixing. It should be used up within 40 minutes. Water must not be added to already prepared mortar.

#### Grouting

Apply the mortar deep and tightly into the joints with the use of a rubber spatula. Move the spatula diagonally to the edges of tiles and held at ca. 45° to the tiles surface.

#### Cleaning

Cleaning is carried out in two stages: preliminary cleaning and final cleaning. **Preliminary cleaning**. When the grout gets matt – after approx. 30 minutes - wash the whole surface with a damp sponge. Joints of intensive colours shall be additionally wetted with plenty of water and left to dry. They may "release" the colour slightly during the initial period of use, which is not a product defect and does not influence the final effect. **Final cleaning**. It can be carried out already after 3 hours. It consists in washing the whole cladding surface with a damp sponge again.

#### **Cladding use**

Light pedestrian traffic is possible already after approx. 3 hours. Full load of the grouted surface is possible after approx. 24 hours.

# Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

 $z = (a1 + a2)/a1 \cdot a2 \times S \times b \times c \times g$ 

z – amount of grout needed [kg]

a1 and a2 - tile length and width [m]

S – surface to be grouted

**b** – joint depth [m]

**c** – joint width [m]

g – grout density [kg/m<sup>2</sup>] – for ATLAS ARTIS GROUT g = 1650 Examples of consumption:

Tilo sizo	Width of joint	Depth of joint	Coverage
The size	[mm]	[mm]	[kg/m <sup>2</sup> ]
0,02 m x 0,02 m	2.0	2.0	approx. 0.65
0,10 m x 0,10 m	3.0	7.5	approx. 0.75
0.30 m x 0.30 m	4.0	7.5	approx. 0.35
0.30 m x 0.60 m	5.0	7.5	approx. 0.30
0.50 m x 0.50 m	5.0	7.5	approx. 0.25
0.60 m x 0.60 m	5.0	7.5	approx. 0.20

# Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration.
- In order to avoid various colour shades, it is recommended to use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- Protect the grout against drying too fast.
- The real grout colour is set when the grout sets and dries, after approx. 2 3 days.
  For at least first 3 days the grout must not be exposed to precipitation, low
- temperatures (below  $+5^{\circ}$ C) and high air humidity.
- In joints located in particular parts of cladding (internal and external corners, expansion joints), finishing beads should be used, e.g. ATLAS EDGE TRIMS or filling with permanently elastic materials e.g. ATLAS ARTIS silicone.
- Water reservoirs designated for drinking water should be washed with water after the product ageing.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the grout of the same manufacturing date and the same batch number for each individual surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS SZOP agent. Contains 2-Octyl-2H-isothiazolin-3-one. Due to its form dust, the mixture can mechanically irritate eyes and respiratory system. After mixing, the mortar has slightly alkaline reaction. Wearing appropriate protective gloves and goggles is recommended. Follow the instructions of the Safety Data Sheet.
- The mortar must be transported and stored in tightly sealed original bags, in dry conditions (most preferably on pallets). Protect against moisture. Shelf life in conditions as specified is 24 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.</li>

# Packaging

Plastic buckets: 2 kg, 5 kg Pallet: 240 kg in 2 kg buckets, 260 kg in 5 kg buckets

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous one become void. Date of update: 2016-02-12







ATLAS EPOXY GROUT is a new generation grout of extraordinary durability and chemical resistance designed for places subject to intensive use. The use of epoxy technology enables to form perfect aesthetics and offers parameters many times higher than given by traditional cement grouts.

Special properties of ATLAS EPOXY GROUT are most of all:

 safety and wide range of use – owing to the possibility of use with any substrate and cladding type (from 1 mm joint thickness), with no risk of discolouration and cracking,

• extraordinary mechanical durability – the grout is resistant to abrasion, scratching, cracking, infl uence of high and low temperature,

• high resistance to chemical factors (including acids, fats, aggressive and colouring factors such as alcohol (wine, spirit), juice, sauces, fats, jam, strong cleaning agents,

• high resistance to washing, scrubbing and abrasion – the grout keeps its initial appearance even years of intensive use,

• hygiene and safety of use - owing to extremely low grout absorptiveness and formation of unfavourable conditions for development of fungi and mould.

# **Properties**

**GUARANTEED** COLOUR – owing to the use of special, strictly selected inorganic pigments and high resistance to external factors.

**100% TIGHTNESS** – owing to very low absorptiveness the product is resistant to water.

MYCO PROTECT – protects against development of fungi, mould and algae. High chemical resistance – perfect for kitchens, bathrooms, showers, garages, water treatment plants, barns, dairies, slaughterhouses, car washes, accumulator rooms, breweries, wineries, bottling plants, laboratories, etc.

Wide range of use – can be used with any cladding on any substrate type, ndoors and outdoors. Recommended for dry, damp and wet rooms, onto floor heating and deformable substrates.

Very high mechanical strength – forms very hard grout, recommended for intensively operated areas, has flexural strength 8 times higher, compressive strength 3 times higher and abrasion resistance 4 times higher than the standard requirements.

**Manufactured in 12 colours** – matching the colours of ATLAS grouts, silicones and trims. Please check the pattern of colours in the product data sheet on www.atlas.com.pl/en.

# ATLAS EPOXY GROUT (1-10 mm) two-component grout

- for any type of tiles
- quick application and profiling, extra smooth surface
- very high resistance to scrubbing and abrasion
- high chemical resistance and very low absorptiveness
- for residential, commercial, public access, industrial buildings, particularly for intensively used areas



#### Use

Grouting ceramic and stone cladding: stone, terracotta, monocottura, clinker, cotto, porcelain-gres tiles, tiles not susceptible to discolouration, ceramic and glass mosaic, glass tiles resistant to scratching, glass bricks, decorated tiles with delicate pattern, mirrors, mirror tiles and other surfaces susceptible to scratching, metal tiles and aluminium sheets, natural stone, e.g. marble.

Note. When grouting mirrors, mirror tiles and other surfaces susceptible to scratching, decorated tiles with delicate pattern or natural stone (e.g marble), one should check the grout influence on a tile individually.

Grouting small, medium and large size cladding - small and medium size tiles  $(< 0.1 \text{ m}^2)$ , large size tiles  $(< 0.25 \text{ m}^2)$ , slim-type tiles. Grouting cladding fixed on standard and deformable as well as difficult substrates:

 - concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements; walls made of cellular concrete, gypsum blocks;

- cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of plasterboards, incl. fi replace casing;

- floors made of wood, OSB, dry gypsum screed;

- steel, plastic substrates.

Grouting tiles on vertical and horizontal surfaces, indoors and outdoors in: - residential single- and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, bathrooms, showers, laundries, garages, on terraces, balconies, stairs, plinths, façades; - public access and commercial buildings – in nurseries, kindergartens, schools,

lecture halls, storage rooms, sacral buildings, hospitals (incl. rooms where sterilization with UV lamps is required), sterile rooms in healthcare objects\*, operating theatres\*, pharmacies, laboratories\*, industrial kitchens\*,garages and car parks, diagnostic stations, car showrooms, car washes, industrial laundries\*;

 - pool basins, saunas, jacuzzi, beaches around pools\*, balneotechnique objects\*, drinking water reservoirs, fountains;

 - transport infrastructure buildings – railway and bus stations, airports - platforms, communication routes, salesrooms, waiting rooms, auxiliary rooms;

 production and industrial buildings – food, fruit and vegetable industry (areas with no aggressive chemical load), storage rooms and warehouses, wash rooms, production premises intensively washed with water, production of fertilizers\*, areas with aggressive chemical load\*, accumulator rooms\*.

Note. In case of rooms marked with "\*" determination of chemical loads and confirmation of resistance needed.

ATLAS EPOXY GROUT is a product consisting of two components – A and B which have to be mixed before application. Component A is a mixture of epoxy resin with specially selected aggregate, fillers, pigments and modifying and decorative additives. Component B is a high quality polyamide hardener for epoxy resins.

Density after mixing the components	1.55 g/cm <sup>3</sup>
Min./max. joint thickness	1 mm / 10 mm
Mortar preparation temperature,	
substrate and ambient temperature	from +10°C to +25°C
during work	
Temperature resistance	from -30°C to +90°C
Component A mixing time	approx. 3 minutes
Mass mixing time	approx. 3 minutes
Pot life	approx. 45 minutes
Cleaning	max. 10 - 20 minutes
Foot traffic	approx. 24 hours
Full mechanical resistance	after 7 days
Full chemical resistance	after 7 days

The time shown in the table is recommended for the application in temperature 23°C and humidity 55% (approx.).

# **Technical requirements**

The product conforms to PN-EN 13888:2010 standard. Declaration of Conformity No. 191. The product has been given the Hygienic Certificate by the National Institute of Hygiene.

Reactive resin based mortar for ceramic tiles grouting	PN-EN 13888:2010
Class	RG
Flexural strength	≥ 30 N/mm <sup>2</sup>
Compressive strength	≥ 45 N/mm <sup>2</sup>
Shrinkage	≥ 1.5 N/mm <sup>2</sup>
Water absorption after 240 min.	≤ 0.1 g
Abrasion resistance	≤ 250 mm

# Grouting

#### Substrate preparation

Before grouting, carefully clean the joints between tiles of dust and any contamination. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. One can begin grouting only when the adhesive sets, not earlier than 24 hours since fixing the tiles. In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, one can begin grouting already after 4 hours. Directly before grouting clean the tiles and joints with a damp sponge. **Grouting can commence when they dry completely**.

#### Grout preparation

# Check the table of chemical resistance available on www.atlas.com.pl/en before the grout use.

The epoxy mortar is delivered as a set consisting of two components: the mass (A) and the hardener (B), in appropriate mixing ratio. All works connected with preparation must be carried out in temperature between  $+10^{\circ}$ C and  $+25^{\circ}$ C. It is recommended to keep the grout in the room of use for min. 12 hours in the application conditions. Mix the component A thoroughly (approx. 3 min), then add component B (hardener), keep the mixing ratio prepared in the package. Mix the mass with a low-speed hand mixer until mass of homogenous consistency and colour is formed (min. 3 minutes). Do not heat the ready-to-use mass in warm water. The mass must be used up within approx. 45 minutes in temperature 20-23°C.

#### Grouting and cleaning

The mass must be applied into the joints with a rubber spatula. Clean the cladding surface immediately after grouting (not later than after 20 minutes) using hard sponges soaked with clean water, with circular moves, paying attention not to damage the already applied grout. Profile the grout (if necessary) after approx. 1 hour with the use of a cellulose sponge until perfectly smooth surface is formed. Then wash the cladding with a wet sponge, frequently rinse the sponge. If a tarnish occurs on the initially set grout surface – wash the surface with warm water with addition of detergent or alcohol.

#### Cladding use

Foot traffic on the grouted or fixed tiles is possible after 24 hours.

# Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

- $z = (a1 + a2)/a1 \cdot a2 \times S \times b \times c \times g$
- z amount of grout needed [kg]
- a1 and a2 tile length and width  $\ensuremath{\left[\text{m}\right]}$
- S surface to be grouted
- **b** joint depth [m]
- c joint width [m]
- $\mathbf{g}$  grout density [kg/m<sup>2</sup>] for ATLAS EPOXY GROUT g = 1500

Examples of consumption:

Tilo sizo	Width of joint	Depth of joint	Consumption
THE SIZE	[mm]	[mm]	[kg/m <sup>2</sup> ]
0,02 m x 0,02 m	2.0	2.0	approx. 0.65
0,10 m x 0,10 m	3.0	7.5	approx. 0.70
0.30 m x 0.30 m	4.0	7.5	approx. 0.40
0.30 m x 0.60 m	5.0	7.5	approx. 0.30
0.50 m x 0.50 m	5.0	7.5	approx. 0.25
0.60 m x 0.60 m	5.0	7.5	approx. 0.20

# Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration.
- Use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- Protect fresh grout against temperatures below +5 °C and precipitation until fully hardens.
- After 4 hours in temperature +20°C, only mechanical removal of grout residues s possible.
- In joints located in particular parts of cladding (internal and external corners, expansion joints), finishing beads should be used, e.g. ATLAS EDGE TRIMS or filling with permanently elastic materials e.g. ATLAS ARTIS silicone.
- The tools must be cleaned with water directly after use. Cleaning at a later time is very difficult and can be done mechanically only.
- Water reservoirs designated for drinking water should be washed with water after the product ageing.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the grout of the same manufacturing date and the same batch number for each individual surface.
- For component A. Contains epoxy resin (average molecular weight ≤ 700), and alkyl (C12-C14) glycidyl ether. Causes serious eye irritation. Causes skin irritation. Harmful to aquatic life with long-lasting effects. To avoid risks to human health and the environment, comply with the instructions for use. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not eat, drink or smoke when using this product. Wear protective gloves. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Dispose of contents/container according to local regulations.
- For component B. Contains 3-Aminomethyl-3,5,5-trimethylcyclohexylamine. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long-lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do ot eat, drink or smoke when using this product. Wear protective gloves. Do not get in yes, on skin, or on clothing. Wash hands thoroughly after handling. IF N SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Store locked up. Dispose of contents/container according to local regulations.
- The product must be transported and stored in tightly sealed original packages, in dry conditions (most preferably on pallets) in temperatures between +10°C and +25°C. Shelf life in conditions as specified is 12 months from the production date shown on the packaging.

# Packaging

Plastic buckets 2 kg. The bucket contains 2 bags with component A (2 x 0.92 kg) and 2 packages with component B (2 x 0.08 kg).

Plastic buckets 5 kg. The bucket contains 2 bags with component A (2 x 2.30 kg) and 2 packages with component B (2 x 0.20 kg).

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous one become void. Date of update: 2016-02-18



DECORATIVE GROUT ATLAS is a product of extraordinary decorative features. Owing to the content of brocade in the mass it provides the cladding with special aesthetic effect. Moreover, due to appropriate recipe ATLAS DECORA-TIVE GROUT ensures:

• possibility of application with most types of tiles - owing to high adhesion and vast joint width range (1-15 mm),

• high resistance to UV radiation - owing to the use of special, strictly selected inorganic pigments, additionally protected against degradation by hydrophobic polymer, which makes the grouts durable and intensive in time,

• hygiene and safety of use - owing to low absorptiveness and protection against development of mould, algae and fungi.

# **Properties**

**PEARL EFFECT** – reduced absorptiveness – the use of structural and coat hyrophobic additives protects the surface against penetration of dirt and discolouration.

**GUARANTEED COLOUR** – durable and intensive colours for years - owing to the use of special, strictly selected inorganic pigments, additionally protected against UV radiation.

MYCO PROTECT – protects against development of fungi, mould and algae. GLITTER EFFECT – the grout contains in mass a special brocade providing the cladding with unique and decorative appearance. Appropriately selected colourful particles make the grout glitter. The effect intensiveness depends on the light angle and intensity.

**BIO BARRIER AG+** - owing to the use of ions of silver the grout holds antibacterial properties,

Flexible – enables to grout cladding fixed on substrates subject to deformation – screeds and plasters with heating systems, plasterboards, etc.

Perfectly matches metalized tiles, glass and ceramic, mosaic, glass bricks. Manufactured in 5 colour compositions – matching the colours of ATLAS grouts,

silicones and trims. Please check the pattern of colours in the product data sheet on www.atlas.com.pl/en.

#### Use

Grouting ceramic and stone cladding: stone, terracotta, monocottura, clinker, cotto, porcelain-gres tiles, tiles not susceptible to discolouration, ceramic and glass mosaic, glass tiles resistant to scratching, glass bricks, decorated tiles with delicate pattern, mirrors, mirror tiles and other surfaces susceptible to scratching, metal tiles and aluminium sheets, natural stone, e.g. marble.

Note. When grouting mirrors, mirror tiles and other surfaces susceptible to scratching, decorated tiles with delicate pattern or natural stone (e.g marble), one should check the grout influence on a tile individually.

Grouting small, medium and large size cladding - small and medium size tiles

# **ATLAS DECORATIVE GROUT**

# (1-15 mm)

# fine-aggregate cement grout

- for any size and many types of tiles
- flexible
- durable glitter effect, perfect for mosaic and glass bricks
- easy to keep clean, resistant to bacteria and mould



(< 0.1 m<sup>2</sup>), large size tiles (< 0.25 m<sup>2</sup>), very large size tiles (> 0.25 m<sup>2</sup>), slim-type tiles. Grouting cladding fixed on standard and deformable as well as difficult substrates:

 - concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements; walls made of cellular concrete, gypsum blocks;

- cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of plasterboards, incl. fireplace casing;

- floors made of wood, OSB, dry gypsum screed;

Grouting tiles on vertical and horizontal surfaces, indoors in:

 residential single- and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, bathrooms, showers, laundries;

 - public access and commercial buildings – in nurseries, kindergartens, schools, lecture halls, sacral buildings, hospitals (incl. rooms where sterilization with UV lamps is required)\*, pharmacies, car showrooms;

 transport infrastructure buildings – railway and bus stations, airports – salesrooms, waiting rooms.

Note. In sterile rooms in healthcare objects, operating theatres, etc., we recommended the use of ATLAS EPOXY Grout.

ATLAS DECORATIVE GROUT is manufactured in the form of dry mix of cement binder, specially selected aggregates, fillers, pigments and modifying additives of the highest quality.

Bulk density (of dry mix)	approx. 1.2 kg/dm <sup>3</sup>
Wet bulk density (after mixing)	approx. 1.8 kg/dm <sup>3</sup>
Dry density (after setting)	approx. 1.65 kg/dm <sup>3</sup>
Mixing ratio (water/drugais)	0.22 – 0.24 l/1 kg
Mixing ratio (water/dry mix)	0.44 – 0.48 l/2 kg
Min./max. joint thickness	1 mm / 15 mm
Mortar preparation temperature,	
substrate and ambient temperature during	from +5°C to +35°C
work	
Maturing time	approx. 5 minutes
Pot life	approx. 2 hours
Initial cleaning	after approx. 30 minutes
Final cleaning	after approx. 3 hours
Light foot traffic	after approx. 3 hours
Full load	after approx. 24 hours

The time shown in the table is recommended for the application in temperature 23  $^\circ$  C and humidity 55% (approx.).

# **Technical requirements**

The product conforms to PN-EN 13888:2010 standard. Declaration of Conformity No. 190.

PN-EN 13888:2010	Cement mortar for filling joints, with increased parameters: high abrasion resistance and reduced water absorption.
Class	CG2 WA
Flexural strength in dry conditions	≥ 3.5 N/mm <sup>2</sup>
Flexural strength after freeze-thaw cycles	≥ 3.5 N/mm <sup>2</sup>
Compressive strength in dry conditions	≥ 15 N/mm²
Compressive strength after freeze- -thaw cycles	≥ 15 N/mm <sup>2</sup>
Shrinkage	≤ 2 mm/m
Resistance to abrasion	≤ 1000 mm <sup>3</sup>
Water absorption - after 30 min. - after 240 min.	≤ 2 g ≤ 5 g

# Grouting

#### Substrate preparation

Before grouting, carefully clean the joints between tiles of dust and any contamination. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. One can begin grouting only when the adhesive sets, not earlier than 24 hours since fixing the tiles. In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, one can begin grouting already after 4 hours. Directly before grouting, clean the surface of tiles with damp sponge and wet the joints slightly in order to limit and unify the substrate absorptiveness.

#### Mortar preparation

Pour the mortar from the package into a container with the suitable amount of water (see Technical Data for ratio) and mix until homogenous. You can do it manually or mechanically. The mortar can be used after 5 minutes and remixing. It should be used up within 2 hours. Water must not be added to already prepared mortar.

#### Grouting

Apply the mortar deep and tight into the joints with the use of a float or a rubber spatula. Move the spatula diagonally to the edges of tiles and collect the grout excess. The grout cleaning consists of 3 stages: initial cleaning, final cleaning and dry cleaning.

**1. Initial cleaning** - when the grout gets matt – after approx. 30 minutes - wash the whole surface with a damp sponge. Joints of intensive colours shall be additionally wetted with plenty of water and left to dry. They may "release" the colour slightly during the initial period of use, which is not a product defect and does not influence the final effect.

**2. Final cleaning**. It can be carried out already after 3 hours. It consists in washing the whole cladding surface with a damp sponge again.

 ${\bf 3. Dry \ cleaning}$  – in order to form an uniform Glitter Effect, when the grout fully sets, wipe the grout with dry cloth.

#### Cladding use

Light pedestrian traffic is possible already after approx. 3 hours. Full load of the grouted surface is possible after approx. 24 hours.

# Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

 $z = (a1 + a2)/a1 \cdot a2 \times S \times b \times c \times g$ 

z – amount of grout needed [kg]

a1 and a2 - tile length and width [m]

S – surface to be grouted

b – joint depth [m]

c - joint width [m]

g – grout density [kg/m<sup>2</sup>] – for ATLAS DECORATIVE GROUT g = 1650

Examples of consumption:

Tilo sizo	Width of joint	Depth of joint	Consumption
THE SIZE	[mm]	[mm]	[kg/m <sup>2</sup> ]
0.02 m x 0.02 m	2.0	2.0	approx. 0.80
0.10 m x 0.10 m	3.0	7.5	approx. 0.90
0.30 m x 0.30 m	4.0	7.5	approx. 0.40
0.30 m x 0.60 m	5.0	7.5	approx. 0.38
0.50 m x 0.50 m	5.0	7.5	approx. 0.30
0.60 m x 0.60 m	5.0	7.5	approx. 0.25

# Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration.
- In order to avoid various colour shades, it is recommended to use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- Protect the grout against drying too fast.
- The real grout colour is set when the grout sets and dries, after approx. 2 3 days.
- In joints located in particular parts of cladding (internal and external corners, expansion joints), finishing beads should be used, e.g. ATLAS EDGE TRIMS or filling with permanently elastic materials e.g. ATLAS ARTIS silicone.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the grout of the same manufacturing date and the same batch number for each individual surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS SZOP agent.
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Keep out of reach of children. Avoid breathing dust. Wear protective gloves, protective clothing, eye protection, face protection. If on skin (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing. Follow the instructions of the Safety Data Sheet.
- The mortar must be transported and stored in tightly sealed original bags, in dry conditions (most preferably on pallets). Protect against moisture. Shelf life in conditions as specified is 24 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - < 0.0002%.</li>

# Packaging

Foil bags: 2 kg Paper cartons: 10 x 2 kg Pallet: 36 cartons (720 kg)

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous one become void. Date of update: 2016-02-18





ATLAS SILTON S is an one-component sealant based on polymers with acetate hardening system. Due to its characteristic it can be widely used in residential and industrial construction. The specially designed recipe ensures: • resistance to harmful atmospheric conditions,

high flexibility.

• resistance to wide range of temperature.

Recommended for sealing the joints between the cladding and the room equipment – around shower cabins, shower basins, joints bathroom furniture and fittings, wash basins, toilets, bath tubs, kitchen worktops, sinks

# **Properties**

Permanently exible – retains high flexibility during the whole operation period, hardens without contraction; enables sealing tiles on stable wood-based panels and plasterboards, as well as on floor and wall heating systems.

**Ensures aesthetic appearance and durable colour of the joints** – it is resistant to UV rays, ageing processes and the influence of cleaning agents.

Forms ideally smooth surface.

Highly resistant to temperatures from  $-50^{\circ}$ C up to  $+180^{\circ}$ C.

Element of the tiling nishing system – in combination with corresponding in colour ATLAS grouts and finishing strips.

**36 colours** – including the colourless one, matching the colours of ATLAS grouts, silicones and finishing trims.

#### Use

Caulking tiles on vertical and horizontal surfaces, indoors and outdoors in: - residential single - and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, offices, bathrooms, showers, laundries, garages, on terraces, balconies, external stairs\*, plinths\*;

- public access and commercial buildings – in nurseries, kindergartens, schools, lecture halls, storage rooms, malls, stadiums, sacral buildings, hospitals (incl. rooms sterilization with UV lamps is required), pharmacies, diagnostic stations, car showrooms;

-pools (adjacent rooms, e.g. dressing rooms, showers), saunas, jacuzzi, fountains;

-production and industrial buildings – areas with no aggressive chemical load, storage rooms and warehouses, wash rooms;

Note. In sterile rooms in healthcare objects\*, operating theatres\*, laboratories\*, garages, car washes, fire water reservoirs, industrial laundries and kitchens\*, production areas with aggressive chemical load\* as well as for ceramic cladding on façades, we recommend the use of ATLAS ARTIS silicone.

# ATLAS SILTON S (4-25 mm) sanitary silicone

- for sealing shower units, wash basins, kitchen furniture
- flexible, resistant to atmospheric conditions
- forms unfavorable conditions for growth of mould and bacteria



#### Caulking tiles on standard and deformable substrates:

- concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements; walls made of cellular concrete, gypsum blocks;

- cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of lasterboards, incl. fireplace casing;

- floors made of wood, OSB, dry gypsum screed.

Note. In case of steel or plastic substrates, we recommend the use of ATLAS ARTIS silicone.

#### Surfaces exposed to low, medium and heavy traffic.

Surfaces subject to water and chemical loads: temporarily and frequently washed with water, detergents, machines and power wash.

Note. For surfaces temporarily or frequently washed with aggressive cheicals\* or under chemical load\*, we recommend the use of ATLAS ARTIS silicone. Note. In case of mark "\*" determination of chemical loads and confirmation of resistance needed.

# **Technical data**

ATLAS SILTON S is a sealant based on silicone elastomer.

Hardening system	acetate
Substrate temperature and ambient temperature during work	from +5°C to +40°C
Temperature resistance after hardening	from -50° up to +180°C
Joint depth	max. 14 mm
Joint width	4 - 25 mm
Pot life	up to approx. 15 min
Foot traffic	after approx. 3 hours
Full load	after approx. 24 hours

# **Technical requirements**

The product conforms to PN-EN 15651-1:2013, PN-EN 15651-2:2013, PN-EN 15651-3:2013 standards. EC Declaration of Performance No. 035/CPR.

<b>C €</b> <sup>1213</sup>	PN-EN 15651-1:2013 (EN 15651-1:2012) PN-EN 15651-2:2013 (EN 15651-2:2012) PN-EN 15651-3:2013 (EN 15651-3:2012)	
Sealants for Façade Elements F-EXT-INT-CC (EN 15651-1) Sealants for Glazing G-CC (EN 15651-2) Sealants for Sanitary Joints S (class S1) (EN 15651-3)		
Conditioning: method A (acc. to ISO 8340)Substrate: glass (without priming), anodized aluminium (without priming)		
Reaction to fire	class E	
Durability	Meets requirements	
Microbiological growth	1	
Release/content of hazardous substances	See: Safety Data Sheet	
Watertightness and gastightness		
Volume change	≤ 3 mm	
Resistance to flow	≤ 40%	
Mechanical properties at constant elongation after water action.	NF	
Adhesion/cohesion properties after exposition to heat, water and artificial light	NF	
Mechanical properties after water action (+ 23°C)	≥ 25%	
Properties at elongation (transverse elongation module) for sealants used in cold climate (- 30 °C) s	≤ 0.9 MPa	
Mechanical properties at constant elongation for sealants used in cold climate (- 30 °C) s	NF	
Elastic return	≥ 60%	

# Caulking

#### Substrate preparation

The substrate should be dry, clean and free from dust, dirt and other contamiations adversely affecting the binding. Surfaces adjacent to places to be filled with the silicone should be protected with protective tape.

#### Caulking

Before application, remove the nozzle and cut the tip of the cartouche. Then install the nozzle and cut it at angle to the width corresponding with the width of the joint. Insert the cartouche into the caulk gun. Press the silicone out in a uniform way and with little excess into the joint, continuously, without gaps or empty spots. Shape the surface of the silicone within 10 - 15 minutes since application and finally smooth it with a putty knife or another appropriate tool soaked with water with a small addition of soap or dish washing liquid. It is recommended to shape the joints in a way enabling free water dribbling. After smoothing the joints, remove the tape protecting the surface of the caulked elements immediately.

#### Usage of the floor

Slight pedestrian traffic is possible already after 3 hours since caulking. The sealed surface is ready for full operation load after approx. 24 hours.

# Coverage

The coverage depends on the width and depth of joints. Example coverage for the most common applications is presented in the table below illustrating the number of running meters of the joint obtained from a single cartouche.

Joint width [mm])	Joint depth [mm]	Coverage [rm/280 ml]
4.0	6.0	approx. 11.0
6.0	6.0	approx. 7.5
8.0	6.0	approx. 5.5

# Important additional information

- The sanitary silicone must not be used for mending fish tanks, fixing mirrors, or caulking joints with Teflon, polyethylene (PE), polypropylene (PP), concrete, marble and lead, zinc, copper and iron.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the silicone of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- In order to prevent the silicone from sticking to the bottom of the joint and ensure optimum filling between its side walls only, it is recommended to use polyurethane foam backer rods.
- All silicone stains must be removed immediately with petroleum spirits. After hardening they can be removed mechanically only.
- Keep out of reach of children. In case of any symptoms of concern get medical assistance immediately, show safety data sheet, packaging or label. Follow the Safety Data Sheet.
- The silicone has to be transported and stored in tightly sealed original pack ging, in dry conditions and temperature between +5°C and +25°C. Shelf life in conditions as specified is 18 months from the production date shown on the packaging.

# Packaging

Plastic cartouches: 280 ml

Cartons of 6 or 12 cartouches (depending on the colour).

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2016-03-09





ATLAS ARTIS silicone is an advanced one-component elastomer sealing putty based on polysiloxanes with acetate hardening system, used for filling and sealing joints between tiles and for execution of flexible expansion joints filling. Owing to optimum recipe containing appropriately selected components ATLAS ARTIS silicone ensures:

- possibility of application with tiles of any type owing to high adhesion to edges and wide range of use (4-25 mm),
- high durability ensures tightness when compensating deformations of expansion joints, cladding joints in the corners, etc. as well as deformations resulting from mechanical and operation loads.
- resistance to external factors long-term UV and water action, extreme temperature.

#### **Properties**

**Recommended for sealing the joints between the cladding and the room equipment** – around shower cabins, shower basins, joints bathroom furniture nd fittings, wash basins, toilets, bath tubs, kitchen worktops, sinks.

# Resistant to machine and pressure washing.

For caulking tiles located in the corners and for filling the expansion joints. Permanently flexible – retains high flexibility during the whole operation period, hardens without contraction, enables caulking tiles on stable wood-based panels and plasterboards, on fl oor and wall heating systems.

#### Allows to form perfectly smooth surface.

Highly resistant to temperature - between -50°C and +180°C.

**39 colours** – including the colourless one, matching the colours of ATLAS grouts, silicones and finishing trims.

# ATLAS ARTIS (4-25 mm) sanitary silicone

- permanently flexible, frost-resistant, resistant to UV radiation
- for joints and expansion joints between materials of various types
- forms unfavorable conditions for growth of mould and bacteria
- 39 durable colours
- for residential, commercial and service, public access, industrial buildings



#### Use

Caulking tiles on vertical and horizontal surfaces, indoors and outdoors in: - residential single- and multi-family buildings, office buildings – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, offices, bathrooms, showers, laundries, garages, on terraces, balconies, external stairs\*, plinths\*, façades;

- public access and commercial buildings – in nurseries, kindergartens, schools, lecture halls, storage rooms, malls, stadiums, sacral buildings, hospitals (incl. rooms where sterilization with UV lamps is required), sterile rooms in healthcare objects\*, operating theatres\*, pharmacies, laboratories\*, industrial kitchens\*, garages and car parks, diagnostic stations, car showrooms, car washes, industrial laundries\*;

- pools (adjacent rooms, e.g. dressing rooms, showers), saunas, jacuzzi, fire water reservoirs, fountains;

- production and industrial buildings – areas with no aggressive chemical load, production areas with aggressive chemical load\*, storage rooms and warehouses, wash rooms, production premises intensively washed with water;

#### Caulking tiles on standard and deformable substrates:

- concrete, cement, anhydrite screed, etc., including those with water and electric heating;

- concrete walls made of ceramic brick, silicate brick, with ceramic elements;

walls made of cellular concrete, gypsum blocks; - cement, cement-lime, gypsum plasters, etc.; walls and drywalls made of plasterboards, incl. fireplace casing;

- floors made of wood, OSB, dry gypsum screed;

- steel, plastic substrates.

resistance needed.

Surfaces exposed to low, medium and heavy traffic.

Surfaces subject to water and chemical loads: temporarily and frequently washed with water, detergents, aggressive chemicals\*, machines and power wash. Note. In case of mark "\*" determination of chemical loads and confirmation of

ATLAS ARTIS silicone is a sealant based on silicone elastomer.

Hardening system	Coverage	
Substrate temperature and ambient	from +5°C to +40°C	
temperature during work		
Temperature resistance after hardening	from -50° up to +180°C	
Joint depth	max. 14 mm	
Joint width	4 - 25 mm	
Pot life	up to approx. 15 min	
Foot traffic	approx. 3 hours	
Full load	approx. 24 hours	

# **Technical requirements**

The product conforms to PN-EN 15651-1:2013, PN-EN 15651-2:2013, PN-EN 15651-3:2013 standards. EC Declaration of Performance No. 128/CPR.

	PN-EN 15651-1:2013 (EN 15651-1:2012)	
<b>( –</b> 1213	PN-EN 15651-2:2013 (EN 15651-2:2012)	
	PN-EN 15651-3:2013 (EN 15651-3:2012)	
Sealants for Facade Elements F-EXT-INT-CC (EN 15651-1)		
Sealants for Glazin	g G-CC (EN 15651-2)	
Sealants for Sanitary Joints S (class S1) (EN 15651-3)		
Conditioning: method A (acc. to ISO 8340)Substrate: glass		
(without priming), anodized	aluminium (without priming)	
Reaction to fire	Class E	
Durability	Meets requirements	
Microbiological growth	1	
Release/content of hazardous	See: Safety Data Sheet	
substances	See. Sulety Buta Sheet	
Watertightness	and gastightness	
Volume change	≤ 3 mm	
Resistance to flow	≤ 40%	
Mechanical properties at constant	NF	
elongation after water action		
Adhesion/cohesion properties		
after exposition to heat, water and	NF	
artificial light		
Mechanical properties after water	> 25%	
action (+ 23°C)		
Properties at elongation		
(transverse elongation module)	< 0.9 mPa	
for sealants used in cold climate	20.9 mild	
(- 30°C)		
Mechanical properties at constant		
elongation for sealants used in cold	NF	
climate (- 30°C)		
Elastic return	≥ 60%	

# Caulking

#### Substrate preparation

The substrate should be dry, clean and free from dust, dirt and other contaminations adversely affecting the binding. Surfaces adjacent to places to be filled with the silicone should be protected with protective tape.

#### Caulking

Before application, remove the nozzle and cut the tip of the cartouche. Then install the nozzle and cut it at angle to the width corresponding with the width of the joint. Insert the cartouche into the caulk gun. Press the silicone out in a uniform way and with little excess into the joint, continuously, without gaps or empty spots. Shape the surface of the silicone within 10 - 15 minutes since application and finally smooth it with a putty knife or another appropriate tool soaked with water with a small addition of soap or dish washing liquid. It is recommended to shape the joints in a way enabling free water dribbling. After smoothing the joints, remove the tape protecting the surface of the caulked elements immediately.

#### Usage of the floor

Slight pedestrian traffic is possible already after 3 hours since caulking. The sealed surface is ready for full operation load after approx. 24 hours.

# Coverage

The coverage depends on the width and depth of joints. Example coverage for the most common applications is presented in the table below illustrating the number of running meters of the joint obtained from a single cartouche.

Joint width	Joint depth	Coverage
[mm]	[mm]	[rm/280 ml]
4.0	6.0	approx. 11.0
6.0	6.0	approx. 7.5
8.0	6.0	approx. 5.5

# Important additional information

- The sanitary silicone must not be used for mending fish tanks, fixing mirrors, or caulking joints with Teflon, polyethylene (PE), polypropylene (PP), concrete, marble and lead, zinc, copper and iron.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting condi ions. The actual colour shade may to some extent differ from the one shown on the label. Use the silicone of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- In order to prevent the silicone from sticking to the bottom of the joint and ensure optimum filling between its side walls only, it is recommended to use polyurethane foam backer rods.
- All silicone stains must be removed immediately with petroleum spirits. After hardening they can be removed mechanically only.
- Keep out of reach of children. In case of any symptoms of concern get medical assistance immediately, show safety data sheet, packaging or label. Follow the Safety Data Sheet.
- The silicone has to be transported and stored in tightly sealed original packaging, in dry conditions and temperature between +5°C and +25°C. Shelf life in conditions as specified is 18 months from the production date shown on the packaging.

# Packaging

Plastic cartouches: 280 ml

Cartons of 6 or 12 cartouches (depending on the colour)

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous one become void. Date of update: 2016-03-09





# ATLAS FUGERO grout renovator

- contains cellulose microfibers
- well bonding
- high abrasion resistance
- restores colour of cement grouts
- high coating degree



# Use

Restores colour of cement grouts – renovates and unifies colours of discoloured, dirty and faded grouts or those with efflorescence.

Types of renovated grouts - cement and acrylic.

Types of tiles between which the grout can be renovated – ceramic (glazed tiles, terracotta, gres-porcelain, clinker, china mosaic), stone and cement tiles.

# **Properties**

High coating degree – enables changing the colour of grout, applies new colour irrespective of colour intensity of the renovated grout.

Contains cellulose microfibres – guarantees very good coating of the painted areas and increases the coating resistance by forming an internal structure. Can be used gradually – throughout whole shelf life, i.e. 24 months from the production date.

Available as a kit – the package contains the renovating mass, an application brush and a sponge for cleaning the tiles.

Very good bonding to old grouts – tightly bonds to the painted areas. High abrasion resistance – can be used on floors in places with intensive pedestrian traffic.

3 colours – white, light grey and light beige – matching the colours of ATLAS grouts, silicones and trims.

# **Technical data**

ATLAS FUGERO is manufactured on the basis of high quality polymer binder, fillers and modifiers. Coating paint for painting external and internal finishing elements ATLAS FUGERO: maximum content of VOC in the product 31.8 g/l, permissible content of VOC 130 g/l.

Density	approx. 1.4 kg/dm³	
Substrate and ambient temperature during work from +5°C up to +25°C		
Drying time	approx. 2 hours	

# **Technical requirements**

The renovator is not classified as construction product. The product has been given the Radiation Hygiene Certificate.

# **Grouts renovation**

#### Substrate preparation

Before work commencement, the grouts must be carefully degreased and cleaned from dust, efflorescence and any other contaminations. The following substances can be used for cleaning: ATLAS SZOP (contaminations from cementitious mortars) or ATLAS SZOP 2000 (contaminations from products based on polymer dispersions). In case of organic tarnish (fungi or algae), prior application of ATLAS MYKOS fungicide is necessary. When using the cleaning agents, rinse the surface with clear water and leave to dry. If during the sample application (check Important additional information section) a tile gets discoloured, its edges must be appropriately secured prior to the application of the renovator, e.g. by using a protective tape along the edges.

#### **Renovator preparation**

The renovator is manufactured in the form of ready to use, homogenous mass. It must not be mixed with other materials, diluted or thickened. After opening the container, mix the mass in order to unify the consistency.

#### Painting

Apply the renovator once and evenly upon dry joints, using a brush or a sponge (included in the kit), going slightly over the edges of tiles. In case of colour change or when the joints are slightly cracked, application of two coats of the renovator may be necessary.

#### Cleaning

The product can be removed from tiles with a sponge during application or after initial drying, i.e. after approximately 30 minutes.

#### Usage of the cladding

The surface with renovated grouts can be used after approx.12 hours.

# Coverage

The actual coverage depends on the width of joints and the type and size of tiles.

Tile size [cm]	Joint width [mm]	Coverage [m² from a 250 ml container]
Mosaics	2.0	approx. 8.0
10 x 10	3.0	approx. 12.0
15 x 15	3.0	approx. 15.0
20 x 25	3.0	approx. 15.0
30 x 30	3.0	approx. 15.0

#### Important additional information

- Excessively absorptive tiles can get discoloured in contact with the renovator. Therefore, it is recommended to conduct a test of the renovator effect on a small, unexposed fragment of surface. If, as the result of the test, the tile gets discoloured, the edges of tiles must be protected appropriately, e.g. with a protective tape.
- In order to avoid various shades of colour, it is recommended to use only renovator of the same manufacturing date and the same batch number for each individual surface.
- During the application of renovator and in the initial period afterwards (approx. 24 hours), the painted surface must be protected against excessive drying and contact with water.
- The tools must be cleaned with clean water directly after use.
- Harmful to aquatic life with long lasting effects. Keep out of reach of children. Read label before use. Avoid release to the environment. Dispose of contents/ container to appropriately labeled containers designed for selective waste treatment, emptied by an authorized company. Follow the instructions of the Safety Data Sheet.
- Keep in tightly sealed original and labeled containers. Keep in dry and cool places, protect against overheating (> 30 °C) and freezing the product freezes and irreversibly loses its performance in temperature below 0 °C. Protect against direct sunshine. Incompatible materials: avoid contact with aluminum, copper and alloys of these metals. Shelf life in conditions as specified is 24 months from the production date shown on the packaging.

#### Packaging

The kit includes a 250 ml plastic container with renovator, a brush and a sponge. Collective packaging: 6 pieces.

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2015-03-10





# Use

Protection of tile edges against chipping – increased mechanical resistance. Permanently join two planes of tiles – prevent the occurrence of cracks (possible at the application of cementitious mortars) in the corners of rooms, along edges of reveals (e.g. doors, windows), shelves, columns, stairs, bathtub and shower base rims.

Finish the cladding – in places where it joins other construction element, e.g. door frame, parquet, floor panels, carpet floor.

Cover the edges of cut-to-size tiles - give aesthetic appearance.

Make maintenance and keeping clean easier.

Edge and tile trims, together with ATLAS grouts and silicones, make a colour matched set for joining the tiles.

Place of application – bathrooms, shower cabins, toilets, kitchens, laundries or other rooms with increased humidity, balconies, terraces, façades, wall and floor heating systems.

# **Properties**

Edge and tile trims are made of material resistant to negative temperature and UV radiation.

Trims made of PVC are flexible – can be adjusted to edges not being a straight line.

Trims made of PVC are manufactured in 20 colours – partially matching the colours of ATLAS grouts and silicones. Wide range of PVC trims allows selecting the appropriate finishing trim according to the colour of the tiles.

Edge and tile trims made of aluminium are characterized by high mechanical resistance.

# Technical Data

**PVC edge trims** – 4 types of profiles, length 2,500 mm. Two profile heights: 7 mm (also used for tiles 6 mm thick) and 9 mm (recommended also for tiles 8 mm thick), each in two types – for internal and external corners.

Anodized aluminium edge trims – for places exposed to mechanical damage, e.g. thresholds or wall corners in passageways; length 2,050 mm and 2,500 mm, profile height 8 mm and 10 mm (available as trims for external edges only).

Tile trims: anodized and non-anodized, 2,000 mm and 3,000 mm long, with the profile height 8 mm and 10 mm.

# ATLAS EDGE AND TILE TRIMS PVC and aluminium finishing profiles for tiles

- for finishing internal and external corners
- protect the edges of tiles against chipping
- permanently join two planes of tiles
- cover the edges of cut-to-size tiles



# Installation

#### Preparation

Select the appropriate type of the edge or tile trims before the tiling commencement. The profile height must be selected so that the upper plane of the tile (after fixing) does not extend over the applied trim.

#### Application

The edge and tile trims must be applied at the stage of the cladding installation. Put the adhesive on the substrate and press the assembly strip of the trim in the designated installation location. Add additional amount of adhesive on the strip and then carefully place a tile so that it tightly adheres to the profile (avoid gaps) and does not extend above the profile height. The 1÷2 mm wide gaps (that may appear between the tile and the trim) can be filled in with the grout.

# Important additional information

Commonly available cleaning agents for ceramic tiles are recommended for maintenance and cleaning of the edge and tile trims. Do not use products containing concentrated chlorine or ammonia compounds and products based on organic solvents for the PVC trims cleaning.

# Packaging

PVC edge trims are packed in sets of 100 pieces (internal trims) or 50 pieces (external trims), consisting of 10 packages – so-called plastic sleeves, each containing 10 pcs of trims.

Aluminium edge trims are packed in sets of 50 pcs, consisting of 5 packages – so-called plastic sleeves, each containing 10 pcs of trims.

Aluminium tile trims (anodized and non-anodized) are packed in sets of 50 pieces of trims, consisting of 5 packages – so-called plastic sleeves, each containing 10 pcs of trims.

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

At the time of publication of this product data sheet all previous ones become void. Date of update: 2009-11-13



# COLOURS OF GROUTS AND SILICONES

40 colours, with 3 shades of white

23.0	40	12	2		1001
***			104	1.417	L

200	COLD WHITE
001	WHITE
201	WARM WHITE
202	ASH
034	LIGHT GREY
035	GREY
203	STEEL
136	SILVER
036	DARK GREY
037	GRAPHITE
204	BLACK

	BEIGE & BROWN
118	JASMINE
018	PASTEL BEIGE
019	LIGHT BEIGE
205	CREAM
206	CAPPUCCINO
020	BEIGE
207	LATTE
210	COCOA
120	TOFFI
123	LIGHT BROWN
209	BROWN
024	DARK BROWN
124	DARK WENGE
212	GREY-BROWN
211	CEMENT
023	BROWN
022	WALNUT

	COLOURS
215	SAPPHIRE
031	BLUE
117	VIOLET
214	LILAC
216	RED
219	ORANGE
213	MANDARINE
218	LEMON
220	AVOCADO
025	LIGHT GREEN
027	GREEN
217	TURQUOISE

001		0
001	WHITE	3
202	ASH	3
035	GREY	3
136	SILVER	3
037	GRAPHITE	- 3
018	PASTEL BEIGE	
019	LIGHT BEIGE	
212	GREY-BROWN	
020	BEIGE	
120	TOFFI	
023	BROWN	
024	DARK BROWN	

DECORATIVE GROUT

300	ALABASTER
301	PEARL
302	OPAL
303	EREONIA
304	DRIK DIAMOND

We made every effort to present the shaces so as to reflect the ATLAS painte of colours precisely. Nevertheless, the shades may differ from the real ones

Prior to purchase of a particular product check the shade with the original colour chart. Additionally, take into account the surface structure and size, light intensity and substrate type.

