



ATLAS SANITARY SILICONE SILTON S

- for sealing various types of joints and connections
- flexible
- weather-resistant



Innovative technologies

ATLAS SANITARY SILICONE SILTON S is a single-component polymer-based sealant with an acetate curing system. Thanks to its properties, it is widely used in residential and industrial construction. The specially designed formulation provides:

- resistance to harmful atmospheric conditions
- high flexibility
- resistant to a wide range of temperatures

Recommended for sealing the edges of the interface between the cladding and room fittings - around shower enclosures, shower trays, joints around bathroom furniture and fittings, wash basins, toilets, baths, kitchen worktops and around sinks.

Properties

It is permanently elastic - it retains its high elasticity during the entire service life, hardens without shrinkage; enables sealing of coverings on stable wood-based panels and plasterboards and plasterboard, on underfloor and under-plaster heating.

It provides the joints with an aesthetically pleasing appearance and long-lasting colour - it is resistant to UV radiation, ageing processes and cleaning agents.

Creates a perfectly smooth surface.

It has high temperature resistance - from -50 °C to +180 °C.

It is part of a tile finishing system - together with grouts and silicones, it forms a colour-coherent set of products for tile finishing.

Colours

27 colours - in line with the colours of ATLAS grouts and silicones.

000	TRANSPARENT
001	WHITE
202	ASHEN
034	LIGHT GRAY
035	GRAY
203	STEEL
136	SILVER
036	DARK GRAY
037	GRAPHITE
204	BLACK
118	JASMIN
018	PASTEL BEIGE
019	LIGHT BEIGE
205	CREAMY
206	CAPPUCCINO
020	BEIGE
207	LATTE
210	COCOA
120	TOFFEE
123	LIGHT BROWN
209	CHESTNUT
024	DARK BROWN
124	DARK VENGE
212	BROWN-GRAY
211	CEMENT
023	BROWN
022	NUTTY

Purpose

Range of applications - for any cladding on any substrate, indoors and outdoors. Recommended for both dry, damp and wet areas, underfloor heating, deformable substrates, building facades, etc.

SCOPE OF APPLICATION	
indoor	+
outdoor	+
horizontal surfaces	+
vertical surfaces	+
clinker and cotto tiles	+
porcelain tiles	+
natural stone**	+
ceramic mosaic	+
glass mosaic, fused glass	+
scratch-resistant glass tiles	+
impregnated wood	+
stainless steel, anodised aluminium and enamelled surfaces	+
sanitary ceramics	+
shower enclosures, bathtubs	+
sealing of kitchen sinks and furniture	+

TYPE OF SUBSTRATE UNDER THE TILES	
concrete, cement, anhydrite underlays, etc.	+
floor and wall underlays as above. with underfloor heating: water or electric	+
concrete walls, clay brick, silicate brick, with ceramic elements	+
cellular concrete block walls, of gypsum	+
cement, cement-lime, gypsum plaster, etc.	+
plasterboard walls and fittings, including fireplace surrounds	+
wooden floors, OSB, dry gypsum screed	+
substrates of steel, plastic, etc.	Recommended ATLAS ELASTIC SANITARY SILICONE

TRAFFIC VOLUME	
low-traffic areas (individual housing)	+
medium traffic areas	+
high traffic areas	+

WATER AND CHEMICAL LOADS	
surfaces periodically washed with water	+
surfaces frequently washed with water	+
surfaces washed with water and detergent (household use)	+
surfaces washed with water and aggressive chemicals*.	Recommended ATLAS ELASTIC SANITARY SILICONE
surfaces exposed to chemical loads*	Recommended ATLAS ELASTIC SANITARY SILICONE
surfaces cleaned with mechanical equipment	+
surfaces cleaned with pressure washers	+
substrates of steel, plastic, etc.	+

INDIVIDUAL AND COLLECTIVE HOUSING CONSTRUCTION	
showrooms	+
kitchens and kitchenettes	+
lobbies and hallways	+
bathrooms and shower rooms	+
laundries	+
balconies	+
terraces	+
garages in private housing	+
garages in multi-family buildings	+
external staircase*	+
ceramic cladding for plinths*	+

OFFICE BUILDINGS	
offices	+
kitchens and kitchenettes	+
bathrooms and showers	+
corridors and staircases	+
large garages	+
external staircase	+
landscaping elements	+
terraces and balconies	+
external staircase*	+

PUBLIC, COMMERCIAL AND SERVICE BUILDINGS	
halls, corridors and staircases	+
offices	+
bathrooms and showers	+
industrial laundries *	Recommended ATLAS ELASTIC SANITARY SILICONE
Industrial kitchens with adjoining rooms *.	
rooms in day nurseries, kindergartens, schools and other educational and cultural facilities	+
lecture theatres, seminar theatres, etc.	+
laboratories*	Recommended ATLAS ELASTIC SANITARY SILICONE
storage areas	+
reception rooms, patient rooms, doctors' surgeries and other health care facilities	+
healthcare premises (UV lamp sterilisation required)	+
sterile rooms in healthcare facilities, operating theatres, etc*.	
pharmacy sales rooms including ancillary areas	+
surfaces in religious buildings,	+
retail and ancillary areas in large shopping centres	+
areas in service facilities of various types	+
garages and large car parks	+
diagnostic stations	+
auxiliary areas in sports stadiums	+
swimming pools: adjacent areas (changing rooms, showers, etc.).	+
areas in spa facilities, saunas and hot tubs	+
car showrooms	+
garages	Recommended ATLAS ELASTIC SANITARY SILICONE
single and multi-station car washes	
fire reservoirs	
ceramic cladding on building facades	
fountains,	+
terraces and balconies	+
external staircase	+
ceramic cladding of plinths	+

PRODUCTION AND INDUSTRIAL FACILITIES	
production surfaces: surfaces without aggressive chemical loads	+
production areas: fertiliser production*	Recommended ATLAS ELASTIC SANITARY SILICONE
production surfaces: chemically loaded surfaces*	Recommended ATLAS ELASTIC SANITARY SILICONE
production: adjacent premises (changing rooms, washing facilities, office space, etc.)	+
agriculture: animal breeding facilities including adjacent areas	+
washrooms, production areas and around production areas washed with copious amounts of water	Recommended ATLAS ELASTIC SANITARY SILICONE
storage facilities, warehouses	+
sealing of kitchen sinks and furniture	+

* necessary to define the magnitude of chemical loads and confirm resistance

** in the case of absorbent stone (e.g. travertine, sandstone), a priming and trial sealing is necessary (e.g. in the case of marble).

Technical data

ATLAS SANITARY SILICONE SILTON S is a sealant based on silicone elastomer.

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

The times shown in the table are recommended for application conditions of approx. 23 °C and 55 % humidity.

Technical requirements

The product complies with the requirements of PN-EN 15651-1:2013, PN-EN 15651-2:2013 and PN-EN 15651-3:2013.

ATLAS SILTON S (2021) Declaration of performance No. 035/1/CPR	
EN 15651-1:2012 Sealer for outdoor use Sealer for indoor use	
Reaction to fire	Class E
Water and gas tight: - resistance to run-off - change in volume - tensile properties at break at 23 °C - tensile mechanical properties (transverse tensile modulus) for non-structural sealants with low elasticity for use in cold climates (- 30 °C)	$\leq 3 \text{ mm}$ $\leq 45 \%$ $\geq 25 \%$ $\leq 0.9 \text{ MPa}$
EN 15651-2:2012 For glazing applications	
Reaction to fire	Class E
Water and gas tight: - resistance to run-off - change in volume - tensile mechanical properties (transverse tensile modulus) for non-structural sealants with low elasticity for use in cold climates (- 30 °C) - flexible return	$\leq 3 \text{ mm}$ $\leq 40 \%$ $\leq 0.9 \text{ MPa}$ $\geq 60 \%$ at 60 % elongation
EN 15651-3:2012 For non-structural applications in sanitary areas	
Reaction to fire	Class E
Water and gas tight: - resistance to run-off - change in volume - tensile mechanical properties after exposure to water (+ 23 °C)	$\leq 3 \text{ mm}$ $\leq 40 \%$ $\geq 25 \%$
Microbiological growth	1

Silicone application

Substrate preparation

The substrate should be dry, clean and thoroughly cleaned of dust, dirt and other impurities that could weaken the adhesion. Surfaces in the immediate vicinity of areas to be filled with silicone should be protected with painter's tape.

Sealing

Before using the silicone, remove the cap and cut off the end of the cartridge tube. Then put the cap back on and cut it, preferably at an angle, to a width corresponding to the size of the joint. Fit the cartridge thus prepared into the silicone extrusion gun. Extrude the material evenly, introducing it into the joints with a slight excess, in a continuous manner - leaving no gaps or voids. The surface of the silicone should be shaped and finally smoothed in about 5 minutes with a special spatula or other tool, wetted in water with a small amount of soap or dishwashing liquid. It is recommended that the joints are shaped in such a way as to allow water to drain freely. Immediately after smoothing the joints, remove the painter's tape protecting the surface of the elements to be sealed.

Use of the cladding

Light foot traffic is possible already after approx. 3 hours after sealing. The surface can be fully loaded after approx. 24 hours.

Consumption

Consumption dependent on joint width and depth. An example of the consumption for the most common applications is presented in the table below, showing the number of running metres of joint obtained from one cartridge.

Weld width [mm]	Joint depth [mm]	Consumption [mb / 280 ml].
4,0	6,0	approx. 11,0
6,0	6,0	approx. 7,5
8,0	6,0	approx. 5,5

Packaging

Plastic cartridges: 280 ml.

Safety information

Approved by the National Institute of Hygiene.

Safety information is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

Storage and transport

Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at www.atlas.com.pl.

The shelf life of the product (best before use) is 24 months from the production date on the packaging.

Important additional information

Sanitary silicone should not be used to bond aquariums, mirrors or to seal joints with Teflon, polyethylene (PE), polypropylene (PP), lead, zinc, copper and iron.

Excessively absorbent tiles may become discoloured. Therefore test the silicone on a small section. If discolouration occurs the tile should be impregnated with ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES before application.

The colour shown on the front of the packaging is to be regarded as illustrative only. Due to the different technologies used in printing and construction, any differences in shades between the colour of a specific product and its simulation shown on the packaging cannot constitute grounds for any claims against the developer or ATLAS. The shade of a particular colour depends on the homogeneity of its texture, the conditions of use, the parameters of the substrate and the ambient and lighting conditions. The actual colour shade may vary to some extent from the colour shown on the label. Only use product with the same production date and batch number on one surface.

Silicones and grouts are produced on the basis of different types of binders and therefore vary in smoothness and degree of gloss. These factors naturally affect the colour shade for each type of product.

In order to avoid silicone sticking to the bottom of the joint and to ensure the most favourable filling between the joint sides only, it is recommended to use an expansion joint cord of polyurethane foam.

Any soiling from the silicone should be removed on an ongoing basis with petroleum spirit. After curing, their removal is only possible mechanically.

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not relieve the user of the obligation to carry out the work in accordance with the rules of the art of construction and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid. The documents accompanying the product are available at www.atlas.com.pl.

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