



## ATLAS ELASTIC SANITARY SILICONE

- stain-resistant and easy to clean
- for filling joints and expansion joints
- for filling the spaces between different types of materials
- provides a durable, flexible and tight filling
- available in 27 colours according to the ATLAS grout colour range



### Innovative technologies

ATLAS ELASTIC SANITARY SILICONE is an advanced single-component product based on polysiloxanes with an acetate curing system, used for filling joints and making seals between tiles and for making flexible expansion joint fillings. Thanks to its optimum formulation containing appropriately selected components, ATLAS ELASTIC SANITARY SILICONE provides:

- **can be applied to all types of tiles** - thanks to high adhesion to edges and a wide range of application widths (4-25 mm),
- **tightness** - to compensate for deformation of expansion joints, cladding joints in corners, etc. with deformation due to mechanical and operational loads,
- **resistance to external influences** - prolonged exposure to UV radiation, water or extreme temperatures.

ATLAS ELASTIC SANITARY SILICONE is a silicone compound in the form of an easy-to-apply paste, transparent or coloured, with sealing properties, which can be used on horizontal and vertical surfaces. It forms a permanently ELASTIC material that provides:

- high deformability and durability - maintaining high parameters and properties even after many years of intensive use under various thermal, atmospheric and industrial conditions, including permanent immersion in water,
- can be used at very high temperatures, up to 180 °C.

### Properties

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

**Resistant to washing with mechanical and pressure equipment.**

**Used for grouting tiles in the corners of cladding and filling expansion joints.**

**It is permanently elastic** - retains its high elasticity during the entire service life, cures without shrinkage, allows siliconised cladding on stable wood-based and plasterboard, on underfloor and flush-mounted heating.

**Allows you to achieve a perfectly smooth surface.**

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

## 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

| SCOPE OF APPLICATION                                       |   |
|------------------------------------------------------------|---|
| inside                                                     | + |
| outside                                                    | + |
| horizontal surfaces                                        | + |
| vertical surfaces                                          | + |
| clinker and cotto tiles                                    | + |
| porcelain stoneware 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 TO BE GROUTED                                  |   |
|----------------------------------------------------------------------------------|---|
| concrete, cement, anhydrite underlays, etc.                                      | + |
| floor and wall underlays as above.<br>with underfloor heating: water or electric | + |
| concrete walls, clay brick, silicate brick, with ceramic elements                | + |
| cellular concrete block walls, of gypsum                                         | + |
| Cement plaster, cement-lime plaster, gypsum plaster, etc.                        | + |
| plasterboard walls and fittings, including fireplace surrounds                   | + |
| wooden floors, OSB, dry gypsum screed                                            | + |
| substrates of steel, plastic, etc.                                               | + |

| 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*.    | + |
| surfaces exposed to chemical loads*                      | + |
| surfaces cleaned with mechanical equipment               | + |
| surfaces cleaned with pressure washers                   | + |

| 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*                  | + |
| ceramic cladding on building facades           | + |

| OFFICE BUILDINGS                     |   |
|--------------------------------------|---|
| offices                              | + |
| kitchens and kitchenettes            | + |
| bathrooms and showers                | + |
| corridors and staircases             | + |
| large garages                        | + |
| internal staircase                   | + |
| landscaping elements                 | + |
| terraces and balconies               | + |
| external staircase*                  | + |
| ceramic cladding on building facades | + |

| PUBLIC, COMMERCIAL AND SERVICE BUILDINGS                                                     |   |
|----------------------------------------------------------------------------------------------|---|
| halls, corridors and staircases                                                              | + |
| offices                                                                                      | + |
| bathrooms and showers                                                                        | + |
| industrial laundries *                                                                       | + |
| industrial kitchens with adjacent areas *                                                    | + |
| rooms in day nurseries, kindergartens, schools and other educational and cultural facilities | + |
| lecture theatres, seminar theatres, etc.                                                     | + |
| laboratories*                                                                                | + |
| 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                                                                                      | + |
| 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*                                               | + |
| production surfaces: chemically loaded surfaces*                                       | + |
| production: adjacent premises (changing rooms, washing facilities, office space, etc.) | + |
| agriculture: animal breeding facilities including adjacent areas                       | + |
| washrooms, production areas and around production washed with copious amounts of water | + |
| 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 siliconisation is necessary (e.g. in the case of marble).

## Technical data

ATLAS SANITARY ELASTIC SILIKONE 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          |
| Weld width                                        | 4-25 mm                |
| Processing time                                   | 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

|                                                                                                                                                                                                                                                                   |                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ATLAS SANITARY ELASTIC SILICONE (2020)<br>Declaration of performance No. 231/CPR                                                                                                                                                                                  |                                                                   |
| EN 15651-1:2012<br>Sealer for outdoor use<br>Sealer for interior use                                                                                                                                                                                              |                                                                   |
| Reaction to fire                                                                                                                                                                                                                                                  | Class E                                                           |
| Water and gas tight:<br>- resistance to run-off<br>- change in volume<br>- tensile properties at break at 23 °C<br>- tensile mechanical properties (transverse tensile modulus) for non-structural sealants with low elasticity for use in cold climates (-30 °C) | ≤ 3 mm<br>≤ 45 %<br>≥ 25 %<br>≤ 0.9 MPa                           |
| EN 15651-2:2012 For glass applications                                                                                                                                                                                                                            |                                                                   |
| Reaction to fire                                                                                                                                                                                                                                                  | Class E                                                           |
| Water and gas tight:<br>- resistance to run-off<br>- change in volume<br>- tensile mechanical properties (transverse tensile modulus) for non-structural sealants with low elasticity for use in cold climates (-30 °C)<br>- flexible return                      | ≤ 3 mm<br>≤ 40 %<br>≤ 0.9 MPa<br><br>≥ 60 %<br>at 60 % elongation |
| EN 15651-3:2012<br>For non-structural applications in sanitary areas                                                                                                                                                                                              |                                                                   |
| Reaction to fire                                                                                                                                                                                                                                                  | Class E                                                           |
| Water and gas tight:<br>- resistance to run-off<br>- change in volume<br>- tensile properties after water exposure (+23 °C)                                                                                                                                       | ≤ 3 mm<br>≤ 40 %<br>≥ 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 cartouche 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 pedestrian traffic is possible already after approx. 3 hours after silicone application. 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](http://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](http://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

Silicone cannot be used for aquariums, bonding mirrors and sealing joints with Teflon, polyethylene (PE), polypropylene (PP), concrete, lead, zinc, copper and iron.

Rooms where the product has been applied should be ventilated until the smell disappears. After this period, they are suitable for use. Equipment and water tanks in which the product has been used should be washed and thoroughly rinsed with water after seasoning before being put into use.

Excessively absorbent tiles may become discoloured. Carry out a silicone test on a small section before sealing. If discolouration occurs, impregnate the tile with ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES before applying the silicone.

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 differ to some extent from that shown on the label. To avoid possible colour differences, it is recommended to use only silicone with the same production date and batch number on one surface.

Silicones and grouts are manufactured 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 adhering to the bottom of the joint and to ensure the most favourable filling between the joint sides only, the use of a polyurethane foam expansion joint cord is recommended.

Any soiling from the silicone should be removed on an ongoing basis with white spirit

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](http://www.atlas.com.pl).

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