

# Technical Data Sheet

Date of compilation: 16/08/2021

## MOULD X ANTI-MOULD SILICONE

### DESCRIPTION

Elastic single-component silicone sealant for indoor and outdoor use, with 25% maximum movement tolerance.

### PROPERTIES

- Elastic silicone-based sealant
- Optimized tooling properties (short stringing)
- With silver technology, giving long lasting protection against mould
- Ageing and weather-resistant, good UV resistance
- Very good adhesion on glass, glazed surfaces (enamel, tiles) and anodized aluminium
- Compatible with paints

### CURING SYSTEM

Acetate-based curing

### FIELDS OF APPLICATION

For sealing joints and connecting joints in glass, window and metal construction, and in the sanitary sector.

Mould X Anti-Mould Silicone must not be used in aquarium construction, on marble/natural stone, as mirror adhesive and in areas with direct food contact.

In underwater applications, especially accurate tooling is necessary (preparation of substrate; often primer necessary). Underwater joints must be checked in suitable time intervals and have to be reworked if necessary.

Not suited for plastics with in general poor adhesion to silicones (eg PE, PP, PET).

### PACKAGING, CONSUMPTION & STORAGE

Colours: White & Clear

Packaging: 310ml cartridges, 12units/box

**Yield:** Meters of joint per 310 ml cartridge for the following joint dimensions:

5 x 5 mm ..... approx. 12.0 m

10 x 10 mm ..... approx. 3.0 m

Shelf life is 18 months from the production date if stored in a cool dry place, in originally closed packages.



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### USAGE INSTRUCTIONS

#### Substrate pretreatment

The substrate must be dry, firm, and free of dust and grease (clean with isopropanol, if necessary). Porous substrates (e.g. concrete, plasterboard and untreated wood) must be primed. Before primer application, remove any cement slurry, mold release agents or impregnations. In renovation projects, old sealant, remains of paint and loose material must be fully removed. On coated substrates (paints, lacquers), compatibility to the sealant must be tested.

The joint must always be provided with a suitable, correctly dimensioned joint backing (e.g. PE cord, rock wool) to prevent adhesion on three faces. To avoid contamination and to achieve a precise joint, we recommend masking the joint edges with adhesive tape before primer application and filling.

#### Joint dimensions

Joint dimensions should be at least 5 x 5 mm for indoor and 10 x 8 mm (width x depth) for outdoor applications. With increasing joint width (up to 30 mm), joint depth should be roughly half the joint width. Make sure that triangular bevels have uniform sides of equal length with at least 7 mm bonding surface on each side.

#### Tooling

After applying the sealant with a suitable manual, battery-powered or pneumatic caulking gun, the sealant can be smoothed in the joint with water or with a neutral, non-staining water based smoothing agent and a suitable tool (e.g. jointing trowel). Smoothing is not only recommended for optical reasons, but also establishes close contact and good adhesion to the substrate. Remove excess smoothing agent (risk of schlieren). Any adhesive tape used should be removed immediately after smoothing.

#### Important remarks

The function of the sealant can only be guaranteed if correctly applied in accordance with the technical recommendations given in this data sheet and in related standards. Sealant application in situations with strongly fluctuating temperatures (premature stressing of the sealant) must be avoided.

The sealant is compatible with many paints and lacquers. Owing to the large number of different coating systems on the market, own tests concerning adhesion and compatibility have to be performed prior to application. The sealant is not overpaintable. Acetic acid, released in small amounts during curing, may lead to corrosion on sensitive metals (copper, zinc coated metals, iron, steel (depending on the quality) and others). On alkaline substrates (concrete, grout), loss of adhesion and scum may occur. We recommend to use a neutral curing silicone on these substrates.

In contact with bituminous, tar- or plasticizer-releasing substrates (e.g. EPDM, neoprene,

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butyl), discolouration and/or loss of adhesion may occur.

Good ventilation must be provided during application and curing to allow curing by products to evaporate. Low temperatures, low humidities and joint depths above 15 mm can retard skin formation and curing significantly.

Exposure to liquid (eg acid-based cleaning agents, strongly colored liquids) or gaseous chemicals (eg. tobacco smoke) for longer periods can result in discoloration of the product, especially for light colors (white). In general, the mechanical properties of the sealant are not adversely affected.

Due to its fungicide, the product gives additional protection against mould to the joint. But, this can not supersede good housekeeping: It's essential to keep the joint clean, dry and free from substances, that may serve as nutrition medium (eg soap residues, skin scales).

### TECHNICAL INFORMATION

Property	Value White	Value Clear
Density (DIN EN ISO 2811-1)	1,02 ± 0,04 g/cm <sup>3</sup>	1,01 ± 0,04 g/cm <sup>3</sup>
Skin forming time (23°C/50% r.F)	app. 15 min	app. 15 min
Penetration (DIN 51579 / 5 sec.)	210 ± 30 1/10 mm	175 ± 30 1/10 mm
Slump (ISO 7390)	≤2 mm	≤2 mm
Cure rate (within first 24 hours)	app.3 mm	app.3 mm
Shore A hardness (DIN 53505)	17 ± 5 units	19 ± 5 units
Tensile strength (ISO 8339-A, 100%)	app. 0,5 N/mm <sup>2</sup>	app. 0,5 N/mm <sup>2</sup>
Maximum movement tolerance	25 %	25 %
Volume loss (DIN EN ISO 10563)	max. 5 %	max. 5 %
Application temperature (sealant & substrate)	+5°C to +35°C	+5°C to +35°C
Temperature stability range (fully cured sealant)	-40°C to +180°C	-40°C to +180°C
Shelf life (originally closed packages)	18 months (+5°C to +35°C, 50% r.H.)	18 months (+5°C to +35°C, 50% r.H.)

Rate of curing depends on temperature, humidity and depth of substrate. The data given refer to tests at standard conditions (23°C / 50% rel. humidity). Under these conditions, a 10 x 10 mm joint will cure in 8 to 14 days. Low temperature, low humidity and joint depth above 15 mm will retard skin formation and curing significantly.

Data given were determined shortly after production, and may slightly vary with increasing age of product and for different colours. They are not meant for specification purposes.

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### HEALTH & SAFETY

For more information and precautions for use refer to the safety data sheet.

### NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail [technical@arcbuildingproducts.ie](mailto:technical@arcbuildingproducts.ie). Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.