

ARMOR NEUTRAL SILICONE SEALANT

BUILDING AND CONSTRUCTION

Product Description:

A neutral cure, premium performance silicone sealant designed for gap filling and sealing in a wide range of use in building and construction. It combines the advantages of outstanding adhesion to building materials and non-corrosive and odorless

Features & Benefits:

- 100% solvent less silicone,
- Excellent weatherproof and UV resistant,
- No Cracking or Shrinking,
- Water resistant,
- Very low odor and noncorrosive
- Excellent flexibility and adhesion to numerous porous and non-porous substrates for large scale construction and glazing applications.
- Resistant to temperature extremes (-60 °C to +180 °C).
- Fast curing, low modulus, high elasticity.
- High viscosity non-slump formula.

Application Areas:

- Weather sealing and joint sealing for walls, windows and doors.
- Glass to glass and glass to aluminium sealing.
- Sealing applications in kitchens and bathrooms.
- Sealing of connection joints in building industry (brick, wall, concrete, PVC, wood, glass etc.).

Instructions:

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5°C and +40°C.
- In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a backup material.
- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- Recommended joint widths are >10 mm and < 35 mm.
- Joint width and depth ratio should be about 2:1.

Consumption (Approx.):

Joint width	10 mm	15 mm	20 mm
Joint Depth	6 mm	8 mm	10 mm
Joint length /310 ml	5 meters	2.5 meters	1.5 meters

Surface Preparation:

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

Standards:

Meets or exceeds the requirements of the following specifications:

- The French VOC requirements for class A+
- ISO 11600 F & G 20LM.
- CE marked un 15651 for façade, glazing and sanitary applications.
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

Restrictions:

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not over paintable.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- It is not suitable for food contact applications.
- Do not use to produce swimming pool joints.
- Can yellow if exposed to bleach or HCL based brick cleaners whilst curing.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.

Storage and Shelf Life:

- The shelf life is 15 months if stored in unopened-original package in a dry place at temperatures between +5°C and +25°C.

Safety and Disposal:

Inhalation of the sealant vapor for a long period must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for a long period. Cured silicone rubber bears no risk to health. Temperatures between +5°C and +25°C.

Properties:

Basis	Silicone Polymer(Oxime)
Curing System	Neutral
Density (Transparent and Aluminum)	1.02± 0.03 g/ml (ASTM D 792)
Density (Other Colors)	1.20± 0.03 g/ml (ASTM D 792)
Hardness Shore A (Transparent and Aluminum)	17-25 (after 28 days)
Hardness Shore A (Other Colors)	22-32 (after 28 days)
Tensile Strength	≤ 0,4 N/mm ² (23°C and 50% R.H) (ISO 8339)
Temperature Resistance	-60°C to +180°C
Application Temperature	+5°C to +40°C

Elongation At Break (Transparent and Aluminum)	≥ 400% (ASTM D412)
Elongation At Break (Other Colors)	≥350%
Elastic Recovery	Approx. 100% (ISO 7389)
Sagging	0 mm (ISO 7390)

Product:

Product Type	Volume	Package
Transparent, White, Black, Aluminum, Grey, Brown	310 ml	24



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