PENTENS 605 SILICONE

Neutral Cure Silicone Sealant

Product Data Sheet

Description

PENTENS 605 neutral cure silicone sealant is an environmentally friendly and low VOC material which is widely used for glazing, sealing and weatherproofing in all buildings, modular houses, freight containers, roofing and cladding joints. Excellent adhesion to glass, aluminum, ceramics, painted surface, most metals and most plastics.

It is a single-component elastomeric sealant that is permanently elastic upon curing.

Uses

Interior or exterior

- Floor and wall cracks
- Windows & door frames
- Bath tubs
- Tiles
- Metal roofs
- GRP Panels
- Glasses
- Woods

Advantages

- High durability.
- Excellent resistance against to chemicals.
- Easy application.
- Excellent weathering.
- Permanently flexible.
- Excellent acoustic ratings.
- Superior adhesion.

Technical & Physical Data

Form	Paste
Color	Transparent, Black, White, Grey, Brown etc.
Hardness (Shore A) (ASTM C661)	20 - 30
Elongation (ASTM D412)	>290%
Tensile Strength (ASTM D412)	>0.5N/mm²
Cure Time	1 day
Tack-free Time (at 25°C & 50% R.H.)	10 ~ 30 minutes
Application Temperature	-20°C to 50°C
Service Temperature	> 150°C
Shelf Life	12 months
Storage	30°C stored in original unopened containers
Packaging	300ml

Chemical Resistant

ACIDS	Citric Acid 10%	Excellent
	Tartaric Acid 10%	Excellent
	Acetic Acid 5%	Excellent
	Hydrochloric Acid 25%	Excellent
	Sulphuric Acid 50%	Excellent
	Nitric Acid 25%	Very Good
ALKALIS	Fuel / Petrol	Excellent
	Sugar Solution	Excellent
	Lactic Acid 10%	Excellent

Important Notes

1. If contact with eyes occurs, rinse the eyes with a lot of water for 15 minutes and seek medical advice.

2. Apply only to clean surfaces which are free from surface water and leakages.

Green Label Test Data

Total Volatile Organic Compounds (GCMS) (mg/m³)	< 0.5
Total Aldehydes (HPLC) (ppm)	< 0.1
Formaldehyde (HPLC) (ppm)	< 0.05
4-phenylcyclohexene (GCMS) (mg/m³)	< 0.0065
Phthalates (GCMS) (g/L)	Not Detected
Alkylphenolethoxylates (LCMS-MS) (ppm)	Not Detected
Halogenated Solvents (GCMS) (ppm)	Not Detected

Instruction for Use

Surface Preparation

1. Substrate surfaces must be dry and clean, free from dirt, grease, oil or standing water.
2. Use the two-cloth method to clean if surface is dirty.
3. For a neat finishing, use masking tapes and remove them within the working time.

Application

1. Cut the cartridge tip carefully.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45°.
3. Use a caulking gun and extrude the sealant into a single bead.
4. Tool the sealant bead with a clean and dry tool within the working time for a smooth finishing.

Joint Design

The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.

Generally the width of the sealant bead should be computed on the basis of a maximum ±20% movement capability. Minimum bead size should not be less than 6 mm to accommodate movement. The width-to-depth ratio for sealant joint should be 2:1.

Limitations

Not recommended for the following applications:

- Structural glazing applications.
- Below waterline or permanent water immersion.
- Traffic areas subject to abrasion.
- Polycarbonate and polyacrylate, if under tension.
- Applications that require the sealant to be painted.
- Neoprene rubber.

Cleaning

Tools and equipment can be easily cleaned with thinner immediately after use.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, rinse with plenty of water and seek medical advics if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.

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