

Silicone N10 Neutral Cure Silicone is a one part, 100% oxime adhesive sealant. This easy to use and versatile grade is designed for general purpose glazing and sealing applications that require long term reliability.

Silicone N10 has excellent weatherability and UV resistance and is not adversely affected by fluctuations between high and low temperatures.

N10 Neutral Cure Silicone has excellent adhesion to a wide range of materials. These include glass, ceramics, aluminium, concrete, granite, galvanised steel and many plastics. N10 is non-slump and 5 Star VOC Compliant.



Applications

Typical applications for our Silicone N10 Neutral Cure Silicone include:

- Glazing of frames, panels and shop fronts
- Sealing refrigerated rooms and environments
- Sheet metal bonding and sealing
- Sealing around ventilators, air-conditioning units and skylights
- Assembly of metal and plastic signs
- Weatherproofing

Technical Details

Property	Value
Cure Method	Neutral (oxime)
Sag / Slump	Non-Slump (0.1%)
Hardness (ASTM D2240)	28 Shore A
Tensile Strength	1.7 MPa
Dynamic Joint Movement	±25%
Skin Over Time (@ 25°C and 50% Rh)	5-10 Min.
Cure Time (10mm Bead) (@ 25°C and 50% Rh)	5-7 Days
Temperature Rating	-62°C to +180°C
Specific Gravity	1.04

Calculating the Required Quantity

You can work out the amount you will likely need by using the following formula:

$$\text{Number of 300gm Cartridges} = \frac{\text{Joint Width (in mm)} \times \text{Joint Depth (in mm)} \times \text{Joint Length (Metres)} \times 1.15}{292}$$

Please Note: This allows for 15% wastage and assumes rectangular joints.

Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Specifications

Typical data values should be used for precise specification purposes as individual applications will vary. A thin bead of sealant will tolerate more movement than a thick bead. Joint width and depth should not be less than 4mm. Maximum joint widths should not exceed 25mm. Joint depths should be half the width, with a maximum depth of 10mm.

Polyethylene closed cell foam rod is the suggested backing material for providing the correct depth of the joint. If the joint is too shallow, use a polyethylene tape bond breaker. Do not allow the silicone sealant to contact the back of the joint or any staining materials.

Surface Preparation

Surfaces must be clean, dry and free of dirt, grease, oil, rust and water. Do not use soap or detergent for this. If conducting remedial work or applying this silicone to previously bonded parts, all existing sealant must be removed prior to application of the new silicone.

Application

Cut nozzle at 45° angle to desired bead width and apply to substrate with a caulking gun within 5 minutes. Uncured silicone sealant can be cleaned with mineral turpentine.

Some surfaces may require the use of a primer beforehand. If so, allow the primer to dry before applying the silicone. Use approved backing material for joints greater than 10mm deep. For a neat appearance of the joint, use masking tape. Always remove masking tape before the silicone adhesive sealant has skinned over.

Health and Safety

This product will emit acetic acid while curing. Use only in well ventilated areas and avoid breathing in vapour. Avoid contact with skin, eyes and mouth. Please do consult the associated Safety Data Sheet before use for further information and instruction.

Keep out of reach of children.

Limitations

N10 Silicone is not recommended for use on submerged joints where porous substrates permit water to the bond interface. Not for certain rubber products where bleeding of plasticiser may occur, or horizontal walkways where sealant will be subject to abrasion. Cannot be painted, as paint will not adhere to sealant. Not recommended for use on polycarbonate plastic. Suitability for use on other types of plastic including extruded gutter profiles should be tested prior to application.

Shelf Life

Minimum shelf life is 12 months if stored in a cool dry place. Storage temperature should not exceed 25°C as this will limit the shelf life.

Available Sizes and Colours

Silicone N10 Neutral Cure Silicone is available in 300gm Cartridges. Available colours are...

- White
- Translucent
- Black
- Light Grey
- Dark Grey
- Aluminium Grey
- Off White
- Brown

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