



THE STRESS FREE BONDING



Proudly made in India

TECHNICAL DATA SHEET

ESSRBOND 228 NP (NEUTRAL SILICONE SEALANT)

CGSEAL/TDS/648, Date : OCT - 2023

DESCRIPTION

ESSRBOND 228 NP is 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

- ◆ 100% solvent less silicone,
- ◆ Excellent weatherproof and UV resistant,
- ◆ No cracking or shrinking,
- ◆ Water resistant,
- ◆ Very low odor and non corrosive
- ◆ Excellent flexibility and adhesion to numerous porous and non-porous
- ◆ Substrates for large scale construction and glazing applications.
- ◆ Resistant to temperature extremes (-50 °C to +160 °C).
- ◆ Fast curing, low modulus, high elasticity.
- ◆ High viscosity non slump formula.



TECHNICAL PROPERTIES

PROPERTIES	RESULT	TEST METHO
Base	Silicone Polymer	-
Curing System	Neutral	-
Density (Transparent)	1.00 ± 0.03 g/ml	ASTM D 792
Density (Other Color)	1.35 ± 0.05 g/ml	ASTM D 792
Shore A Hardness (Transparent)	20 - 30 (after 28 days)	-
Shore A Hardness (Other Color)	30 - 45 (after 28 days)	-
Tensile Strength	≥ 0.4 N/mm ² (23°C and 50% RH)	ISO 8339
Temperature Resistance	- 50°C to +160°C	-
Application Temperature	+ 5°C to + 40°C	-
Elongation at Break (Transparent)	≥ 400%	ASTM D 412
Elongation at Break (Other Color)	≥ 350 %	-
Elastic Recovery	Approx. 100%	ISO 7389
Sagging	0 mm	ISO 7390



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APPLICATION

- ◆ 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.)



INSTRUCTION

- ◆ 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.

SURFACE PREPARATION

Clean all joints, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

LIMITATION

- ◆ 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.



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SAFETY PRECAUTION

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.

STORAGE

Stored in unopened-original package in a dry place at temperatures between +5°C and +25°C.

SHELF LIFE

12 Month from date of manufacturing in above storage condition

PACKING

ESSRBOND 228 NP is supplied in 260 ml plastic cartridge packed in box of 48 pcs.

NOTE

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.