

TECHNICAL DATA SHEET

FULASEALPRO 300 PREMIUM SILICONE

Description

FulasealPRO 300 Premium Silicone is a premium grade, neutral cure, silicone sealant specially formulated for use in glazing and industrial fabrication where a premium quality, non-corrosive sealant is required, which skins quickly and is easy to use. FulasealPRO 300 Premium Silicone combines a high level of resistance to weathering with excellent adhesion, flexibility and durability. FulasealPRO 300 Premium Silicone can also be used as an adhesive where a highly flexible, high temperature resistant bond is required.

Benefits

- Permanently flexible
- Fast skinning
- Low sag
- Low shrinkage
- Neutral cure
- UV and weather resistant
- One part, ready to use
- +/-20% joint movement capability
- Low VOC (Trans=ca.31g/L, Grey=ca.47g/L, Black=ca.32g/L, White=ca.35g/L) Green star compliant sealant

Uses

- Glass partitions
- Sealing glass block structures
- Glazing and waterproofing of skylites
- Sealing laminated glass
- Non Structural weather sealing of curtain wall facades
- Sealing roofs, gutters, tanks and silos

- Sealing and insulating of electrical services
- Filling channels and sealing lap joints in metal fabrication
- Sealing sheet metal wall cladding
- Bonding mirrors including silver backed mirrors

Compatible Substrates

| | |
|-----------|----------------------|
| Glass | Concrete |
| Aluminium | Some plastics (test) |
| Ceramic | Fibreglass |
| Steel | Non-oily Timber |

Performance Data

| Property | Data |
|---------------------------|--|
| Specific Gravity | Trans=ca.1.01, Grey=ca.1.27, Black=ca.1.05, White=ca.1.03 |
| Sag | Nil |
| Skinning Time | 7 min, 23°C, 50% RH |
| Cure Rate | 2 mm / day |
| Full Cure | Dependant upon thickness |
| Joint Movement Capability | +/- 20% |
| Shore A Hardness | 28 |
| Service Temperature | -40°C to 150°C |
| Application temperature | 5°C to 35°C |
| Elastic Recovery | 85% |

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Coverage

300g cartridge will give approximately 15 lineal meters of a 5mm bead.

| Joint Width (mm) | Joint Depth (mm) | Yield (Linear mtrs) |
|------------------|------------------|---------------------|
| 5 | 5 | 12 |
| 10 | 10 | 3 |
| 15 | 10 | 2 |
| 20 | 10 | 1.5 |
| 10 | 5 | 6 |

Surface Preparation

All surfaces must be clean, dry, sound and free of dust, oil, old sealant or other contamination. Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilise and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface.

For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesion to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag-wipe method. For glazing applications IPA should be used to clean and prepare the surface.

Manufacturers of plastics should be consulted about suitable cleaning solvents. Adhesion to plastics should be pre-tested.

Mask either side of joint to produce a neat finish. Use a suitable sized foam backing rod or polyethylene bond breaker tape to prevent three sided joint contact impeding the free and even deformation of the sealant in a cyclic joint.

Product Application

Cut seal on top of cartridge. Screw on nozzle and cut to desired bead size. Hold gun at 45° angle. Push forward, squeezing trigger to gently fill joint. Within 5 minutes of application tool the sealant, ensure the sealant completely contacts the sides of the joint. If masking tape is used to produce a neat finish, remember to remove the masking tape before the sealant skins. Trim with a knife once cured, if needed.

Painting

Mask all areas not requiring sealant. Paint will not adhere to silicone. Complete any painting and allow to thoroughly dry before applying sealant.

Chemical Resistance

Resistant to water, salt water, grease, oils, fuels, defrosting liquid, detergents, aliphatic fats, mildew, weak acids and bases (pre testing required).

Curing

The rate of cure depends on the air temperature and humidity, the cross sectional area of the bead of sealant and the surface area of sealant exposed to the air.

At 23°C and 50% relative humidity cure rate is 2mm / 24 hours. In general, low humidity and/or low temperature will result in longer cure times. Thicker sections of sealant will have longer cure

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times. A small surface area in relation to the volume of sealant will also extend the cure time. Ensure that the depth of the sealant in a joint never exceeds its width

Shelf Life

FulasealPRO 300 Premium Silicone will remain suitable for use for 12 months from date of manufacture, if stored in original container, unopened, in cool dry place in temperatures less than 25°C. Once opened, the contents should be used as soon as possible. The life of contents of an opened cartridge can be extended if the nozzle is left in place after use and the tip is wrapped in plastic film.

Clean Up

Best results are obtained by masking prior to sealing to avoid the necessity for clean up. If sealant is applied to areas where it is unwanted, clean up uncured sealant using white spirits and a cloth. Cured sealant should be removed by abrasion or trimmed with a sharp knife. Do not undercut seal.

Limitations

- Not suitable for use below ground.
- Powder coated metal surfaces may have high wax contents. Ensure that these surfaces are solvent cleaned before applying silicone.
- Not for structural glazing bonding. Use only as a non-structural weather seal.
- Not for permanent or continuous water immersion.
- Not recommended in situations where movement exceeds $\pm 20\%$ of the original joint dimensions
- Not recommended for use on polycarbonate plastic sheeting.

- Not suitable for use where high abrasion, e.g. foot traffic is expected.
- Not paintable, do not use on freshly painted surfaces.
- Do not use on bituminous surfaces, or materials that bleed oils, plasticisers or solvents as this will affect adhesion
- Will not cure in absence of atmospheric moisture

Safety Information

This product is not considered to be hazardous according to criteria of NOHSC. Avoid contact with skin and eyes. Store in a dry place below 30°C. Keep out of reach of children. A MSDS is available from the H.B. Fuller representative your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au.

Disclaimer

This technical data sheet summarises at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request

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