



FORMWORK SILICONE

Description

Formwork Silicone is a neutral cure non-corrosive silicone sealant designed for sealing form ply sheet edges, joints, gaps or junctions in formwork and bedding applications. It provides a waterproof, sealed, formed face preventing concrete moisture loss or grout leakage during the formwork process. Formwork Silicone is highly flexible, non-bleeding and has good adhesion to concrete, timber, brickwork, stone and metal.

Benefits

- Non-corrosive neutral cure silicone
- Permanently flexible
- Water resistant
- UV and weather resistant
- One part, ready to use

Uses

- Formwork applications including:
 - Sealing gaps around junctions and joints
 - Preventing grout leakage during formworking process
 - Providing a sealed, formed surface

Compatible Substrates

Concrete	Aluminium
Masonry	Zincalume
Steel	Plywood
Timber	

Coverage

300ml cartridge will give approximately 15 lineal metres of a 5mm bead

Performance Data

Property	Data
Specific Gravity	ca. 0.95
Sag	Nil
Skin Time	10 minutes @ 23°C
Cure Rate	2mm/day @ 23°C / 50% RH
Full Cure	After 7 days generally
Service Temperature	-20°C to 140°C
Water Immersion	Not suitable
Joint Movement	+ 20%
Hardness	ca. 21

Limitations

- Not for structural glazing
- Not suitable for roofing, guttering or tanking applications
- Not suitable for permanent expansion or lap joints
- Not suitable for use below ground
- Not for permanent or continuous water immersion
- Not suitable as a plug or seal on burst water pipes or rusted guttering
- Pre test on coated surfaces to establish suitability
- Do not use on marble or other highly porous stone - finish may be affected
- Do not use on copper or brass as discolouration may occur
- Powder coated metal surfaces may have high wax contents. Ensure that these surfaces are solvent cleaned. Pre test silicone to ensure adhesion to surface

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Tel: +61 1800 423 855
customer.service@hbfuller.com
China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com
Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com
Malaysia
Tel: +603 3345 5200
New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com

Philippines
Tel: +63 2 5194073
Taiwan
Tel: +886 2 26033385
Thailand
Tel: +66 2 3757442
Vietnam
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- Not recommended in situations where movement exceeds $\pm 20\%$ of the original joint dimensions
- Maximum joint depth 20mm
- Not suitable for use where high abrasion, e.g. foot traffic is expected
- Do not use to construct aquariums
- Do not use on materials that bleed oils, plasticisers or solvents as this will affect adhesion
- Not a fire rated sealant
- Do not use in direct contact with silver coating of mirrors (e.g. on the edge of the mirror)
- Formwork Silicone cannot be painted

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.

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 wets 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 2 mm / 24 hours. In general, low humidity and/or low temperature will result in longer cure times. Thicker sections of sealant will

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Philippines
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Taiwan
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have longer cure 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

Formwork 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 30°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. However, if sealant is applied to areas where it is unwanted, clean up uncured sealant using toluene*, xylene*, methyl ethyl ketone*, or mineral turpentine* and a cloth. Cured sealant should be removed by abrasion or trimmed with a sharp knife. Do not undercut seal.

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.

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