



FIX25 Specialist Adhesive Sealant

Revision: 10/2024

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Technical Data:

Base	MS Polymer®
Consistency	Stable Paste
Density	1.69g/ml
Curing system	Moisture Cure
Application Temperature	5°C → 35°C
Skin Formation (*)	Approx. 25 min (23°C/ 50% R.H)
Tack Free Time (*)	Approx. 1 hours (23°C/ 50% R.H)
Cure Rate (*)	3mm/24hr (23°C/50% R.H)
Hardness	50 ± 5 Shore A (DIN53505)
Change In Volume	<3%
Maximum Deformation	± 20%
Elongation At Break	> 250% (ISO37, DIN53504)
Temperature Resistance (cured)	-40°C → 100°C
Elastic Modulus 100%	1.30 N/mm ² (ISO37, DIN 53504)
Tensile Strength	1.70 N/mm ² (ISO37, DIN 53504)
Shear Strength:	2.90 N/mm ² (ISO37, DIN 53504)

(*) Values may vary depending on environmental conditions

Product:

Fix25 is a high-quality high strength thixotropic single component structural bonding adhesive sealant. It is based on MS Polymer®, which is chemically neutral, fully elastic with good UV resistance and primer less bonding.

Fix25 is for use in low movement joints, adhesion, bonding and waterproofing in the automotive, RV, marine, building and aerospace industries where a strong bond, impact and vibration resistant adhesive sealant is required.

Characteristics:

- High bond strength on a wide variety of substrates
- White (may shade towards off white), and black is colourfast.
- High performance mechanical properties
- Flexible elastic rubber; up to 20% movement
- Assessed under criteria of NOHSC for WHS Australia and considered as non-toxic, Certificate No.2146.

- No bubble formation within the sealant
- Primer-less adhesion (except where capillary water pressure can occur, this requires an epoxy seal prior to application, test as required)
- Excellent extrudability easy to tool and finish
- Good UV resistance
- Minimal WHS considerations, free from isocyanates, solvents, halogens, acids & asbestos.
- Can be painted wet on wet with acrylic, PU, and other professional marine and Auto paint systems (test prior to application)
- Can be painted over with gel coat 1hr. after application. (test prior to application)
- Can be powder coated
- No staining of porous materials such as natural stone, granite, marble, etc.
- Can be applied under water in limited situations. Seek professional advice prior to application.

Note: The contents contained in this documentation are the result of our experiments and our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the real number of possible applications which are out of our control we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments and compatibility tests.

Fixtech Pty Ltd. PO Box 568, Southport, Qld 4215. Tel: +61 (0)7 5530 1099. Fax: +61 (0)7 5530 1322

Email: info@fixtech.com.au

Web: www.fixtech.com



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Applications:

Structural elastic bonding, sealing and waterproofing components, joints, panels, floors, walls, roofs ceilings, windows, doors, thru-fittings, fastenings, areas of low movement, zones of vibration, underwater and above water, exterior and interior, fittings and fixtures even bonding synthetic decking such as Flexiteek, just to name a few applications.

Suitable for flexible bonding and sealing yet not limited to steel, aluminium raw and powder coated, stainless steel, PVC, fiberglass, gel coat, concrete, composite, glass, hard and soft wood, mirrors, polystyrene, rubber, silicone rubber, cork, rubberized cork, acrylic, polyurethane, PU, PS and XPS foam, etc..... connection joints in sheet metal fabrication, sealing, bonding and waterproofing of coachwork, caravans, boats, buses, domestic and commercial construction.

Packaging:

Colour - Black and White

Packaging - 600mL foil bag

Shelf life:

18 months Foil Bags

In unopened packaging stored in a cool and dry place, at temperatures between +5°C and < 25°C°.

Surfaces Preparation:

Typical Surface: Abraded with red abrasive pad or suitable sandpaper, clean, dry, free of dust, oil and grease and any other release agents. Wipe all bonding surfaces clean with denatured Industrial Alcohol poured into a clean cloth be sure to wipe in one direction only and rotate the alcohol cloth regularly.

Glass: clean, dry, free of dust, grease and oil and any other release agent, wipe surface clean with denatured Industrial Alcohol poured into a clean cloth, be sure to wipe in one direction only.

Priming:

a): For porous substrates we recommend Primer Fix1060 2 pack penetrating epoxy sealer or International Paints Everdure 2 pack penetrating epoxy sealer. (follow application instructions)

b): PE or PP Plastics we recommend PE/PP Plastic Primer (by others) be applied for good adhesion, if not available, then we recommend flame oxidizing the surface by flash flaming the surface with an open propane powered flame without melting the surface just wand the flame over and turn off the flame. Test the adhesion of Fix25 before doing the job is always best practice.

Joint Dimension:

Minimal Width: 5mm (bonding)
5mm (joint)

Maximum Width: 10mm (bonding)
30mm (joint)

Minimum Depth: 5mm(joint)

Recommendation: Width of joint = 2 x depth

Chemical resistance:

- Good against fresh & salt water, aliphatic solvents, oils, grease, diluted inorganic acids and alkalis tending toe
- Moderate against esters, ketone and aromatics
- Not resistant against concentrated acids and chlorinated hydrocarbons

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Applying and Tooling:

Method: Manual or pneumatic caulking gun
Application temperature: +5°C to +35°C

Clean up: Methylated Spirits or denatured industrial alcohol cleaner immediately after application and before curing

Tooling: Best always to dry tool finish to ensure the sealant is pressed home and shaped. If there is a need to smooth over then use a mild diluted soapy solution (e.g. pH neutral dishwashing liquid diluted in fresh clean water), before skin formation. Recommend washing off the soapy residue with fresh clean water when cured and allow to dry.

We do recommend just to dry tool the product and allow to dry uncontaminated.

Repair: FIX25

Health- and Safety Recommendation:

Apply the usual industrial hygiene. Wear glove Safety Glasses. Fix25 is a Low VOC product and is non-toxic.

Remarks:

- Fix25 may be overpainted with acrylic, PU, other professional single or 2 pack marine or automotive paints, however due to the large number of paints such as and not limited to 1 and 2 pack PU, acrylic, 2 pack epoxy varnishes and gel coats that are available we strongly recommend compatibility tests before application.
- The drying time of some alkyd paint systems may increase, and some enamel, and oil-based paints will not cure properly. We do not recommend the oil-based varnishes to cover the sealant.
- Fix25 can be applied to a wide variety of substrates. Because the specific properties of substrates will differ from manufacturer to manufacturer, we strongly recommend compatibility tests.

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