



TECHNICAL DATA SHEET

FIX190

Revision: 9/2020

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Technical Data:

Base	MS Polymer®
Consistency	Stable Paste
Curing system	Moisture Cure
Skin Formation(*)	Approx. 15-20 min (23°C & 55% R.H)
Cure Rate (*)	3-4 mm/24Hrs (23°C & 55% R.H)
Hardness	55-60 Shore A
Change In Volume	< 3%
Specific Gravity	1.38g/mL
Maximum Deformation	20%
Application Temperature	+5°C to +35°C
Temperature Resistance	-40°C to +120°C
Short Temperature Resistance	+180°C (30 minutes), +200°C (15 minutes),
Elastic Modulus 100%	1.0 MPa (ISO 8839) = 2.2 MPa (ISO37)
Tensile Strength	1.6 MPa (ISO 8839) = 3.6 MPa (ISO 37)
Elongation At Break	240% (ASTM D 1002)
Shear Strength:	1.7N/ mm ² (ASTM D 1002) FRP-FRP

(*) Values may vary depending on environmental conditions

Product:

Fix190 is a high quality single component joint adhesive sealant based on MS-Polymer®. It is chemically neutral and fully elastic. For use in low movement joints and for structural bonding and direct glazing in marine, transport, aerospace and construction industries, where a strong flexible bond is required. Suitable for below waterline applications. Fix190HT is compliant with:
 DNVGL Structural bonding and direct glazing
 AS/NZ4020 Potable water sealing
 2020 IMO FTP Test Part 2 Smoke & Toxicity Test
 2020 IMO FTPT est Part 5 Surface Flamability
 EN 45545-2 R1+R7 Hazard Level 1, 2 & 3.

Characteristics:

- Outstanding bond strength on most all substrates, colour stable and UV resistant
- Excellent adhesion on porous and non-porous substrates (primer may be required)

- High performance mechanical properties
- Flexible elastic rubber, movement accomodation ± 20%
- Easy application
- No bubble formulation within the sealant
- Ecological advantages; free from isocyanates, solvents, halogens and acids
- Verified by Australian Government as non-hazardous
- Can be painted after 1 hour(compatibility tests recommended)

Applications:

Structural bonding, direct glazing, areas subject to vibration. Suitable for all marine, transport, RV and solar applications including water proofing, glazing, bonding, sealing of floors, walls and components. Elastic bonding of components made from carbon fibre, fibreglass, aluminium, steel, copper, brass, stainless steel, glass, PVC and ABS, polystyrene and wood and more.

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.



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Applications Cont:

We do not recommend the Fix190HT for use in sealing exterior exposed oily wood such as teak, instead we recommend Fix1DC for this application.

Packaging:

Colour - Black and White

Packaging –600mL foil sausage only

Shelf life:

18 months Cartridges & Foil sausages; from production date, stored in unopened packaging in a cool and dry storage place at temperatures between +5°C and 23°C.

Note: Higher storage temperatures means shorter shelf life.

Surfaces:

State of Surface: Abraded, clean, dry, free of dust and grease

Priming: For porous substrates Fixseal 1060 may be applied.

For Polypropylene, Primer PR20.

For Polyethylene, we recommend flaming oxidation.

Non-porous substrates may be cleaned with Methylated Spirits or a denatured alcohol cleaner. We recommend a preliminary compatibility test.

Resistance to Chemicals:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids.

Poor resistance to aromatic solvents, alkalis concentrated acids and chlorinated hydrogens

Joint Dimensions:

Minimal Width: 2mm (bonding)

5mm (joint)

Maximum Width: 10mm (bonding)

30mm (joint)

Minimum Depth: 5mm(joint)

Recommendation: width of joint = 2 x depth

Application:

Method: Manual or pneumatic caulking gun

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

Tooling: mild diluted soapy solution before skin formation

Repair: Fix190

Health- and Safety Recommendation:

Apply the usual industrial hygiene. Wear gloves . Safety Glasses.

Remarks:

- Fix190 may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly recommend compatibility tests before application. The drying time of some alkyd paint systems may increase.
- Fix190 can be applied to a wide variety of substrates. Due to the fact that the specific properties of substrates will differ from manufacturer to manufacturer we strongly recommend compatibility.

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