



FIX190 - (MSP190)

Revision: 5/2017

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Technical Data:

Base	MS Polymer®
Consistency	Stable Paste
Curing system	Moisture Cure
Skin Formation(*)	Approx. 45 min (23°C & 75% R.H)
Cure Rate (*)	2-3mm/24Hrs (23°C & 75% R.H)
Hardness	45±5 Shore A
Change In Volume	< 2%
Specific Gravity	1.38g/mL
Maximum Deformation	20%
Temperature Resistance (cured)	- 40°C to +100°C
Elastic Modulus 100%	1.0N/mm ² (ISO 8839)
Tensile Strength	> 1.6N/mm ² (ISO 8839) = 3.6MPa (ISO 37)
Elongation At Break	230% (ASTM D 1002)
Shear Strength:	> 1.57N/ mm ² (ASTMD 1002)

(*) 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 application. Fix190 is approved by:
 Det Norske Veritas (DNV) – Structural bonding and direct glazing
 Germanischer Lloyd (GL) - Structural bonding and direct glazing
 Standards Assurance Innovations – AS/NZ4020 for potable water.

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

Characteristics continued:

- Ecological advantages; free from isocyanates, solvents, halogens and acids
- Verified by NOHSC as non-hazardous
- Can be painted (compatibility tests recommended)

Applications:

Structural bonding and direct glazing with high end strength and flexibility. Structural bonding in areas subject to vibration. Suitable for all marine applications including glazing, bonding and sealing of floors, walls and components. Elastic bonding of components made from carbon fibre, fibre glass, aluminium, steel, copper, brass, stainless steel, glass, PVC and ABS plastics, polystyrene and timber (primer may be required) We do not recommend the Fix190 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 bag

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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Shelf life:

15 months Cartridges; 12 months Foil Bags; from production date.

In unopened packaging in a cool and dry storage place at temperatures between +5°C and 23°C.

Surfaces:

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

Priming: For porous substrates Fixseal 1060 may be applied. Polypropylene Primer PR20. Non-porous substrates may be cleaned with Methylated Spirits or alcohol cleaner.

We recommend a preliminary compatibility test.

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

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

Application:

Method: Manual or pneumatic caulking gun

Application temperature: +1°C to 30°C

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

Tooling: mild diluted soapy solution before skin formation

Repair: Fix190 MSP190

Health- and Safety Recommendation:

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

Remarks:

- Fix190 MSP190 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 MSP190 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 tests.

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