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**FIXSEAL+ MSP190 Slow**

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**Date:25/1 0/07****Page****1 of 2****Technical Characteristics:**

Base	MS Polymer®
Consistency	Stable Paste
Curing System	Moisture Cure
Skin Formation (*)	approx. 45 min. (23°C/75% R.V.)
Curing Rate (*)	2-3 mm/24hr (23°C/75% R.V.)
Hardness	45±5 Shore A
Specific Gravity	1.38g/mL
Maximum Deformation	20%
Temperature Resistance (fully cured)	-40°C to +100°C
Elasticity Modulus 100 %	1.0N/mm <sup>2</sup> (ISO 8839)
Tensile Strength	>1.60N/mm <sup>2</sup> (ISO 8839) equal to 3.6MPa (ISO37)
Shear Strength	>1.57N/mm <sup>2</sup> (ASTM D 1002)
Elongation at break	230% (ASTM D 1002)

(\*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates

**Product:**

FixSeal+ MSP190 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 in construction, automotive, marine and aerospace areas, where a tough flexible rubber is required.

**Characteristics:**

- Outstanding bond strength on nearly all surfaces
- Excellent adhesion on porous and non porous substrates
- High performance mechanical properties
- Flexible elastic rubber – movement accomodation up to ±20%
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Very easy to tool and finish
- Good extrudability even at low temperatures
- Colour stable and UV resistant
- Ecological advantages – free of isocyanates, contains no solvents, halogens and acids
- Verified by NOHSC as non - hazardous
- Can be painted with all water based paints and many other systems

**Applications:**

Structural bonding adhesive sealant for direct glazing with a high end strength, flexibility and finishing. Structural bonding in vibrating zones and bulkheads. Ideal for all marine applications including glazing, thebonding and sealing of floor plates, wall systems and flybridges, and the linings of all common boat building materials. Elastic bonding of panels made from carbon fibre or fibreglass, aluminium, steel, lead, copper, brass, marine stainless steel, glass, paint coated surfaces, PVC, ABS, timber including teak, polyester, polystyrene etc. Also suitable for Shipdeck caulking, with Primer PR10.

**Packaging:**

Colour: white, black, other colours on request :  
Packaging: cartridge 290mL; foil bag 600mL,

**Shelflife:**

15 months in unopened packaging in a cool and dry place at temperatures between +5°C to 25°C.

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great 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.



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**Resistance to chemical agents:**

Good resistance to both fresh and salt water, mineral oils, grease, diluted inorganic acids, alkalis and aliphatic solvents.

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrogens

**Substrates:**

*Nature:* clean, dry, free of dust and grease. *Priming:* Porous surfaces should be primed with Primer PR10, such as hull and deck plank caulking. For non-porous surfaces, Acetone or 100% Alcohol should be used after wet and dry sanding of the surface. We recommend preliminary compatibility tests if you are unsure before final application.

**Recommended Joint dimensions:**

*Minimum width:* 2 mm (bonding)

5mm (joints)

*Maximum width:* 10mm (bonding)

30mm (joints)

*Minimum depth:* 5 mm (joints)

**Application:**

*Method:* Manual or pneumatic caulking gun

*Application temperature:* +5°C to 35°C

*Clean Up:* Methlyated Spirits or Surface Cleaner immediately after application and before curing

*Tooling:* with soapy solution before skin formation

*Repair with:* FixSeal+ MSP190.

**Health- and Safety Recommendation:**

Apply the usual industrial hygiene.

**Remarks:**

- FixSeal +MSP190 may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alky resin based paints may increase.
- FixSeal +MSP190 can be applied to a wide variety of surfaces. However, due to the fact that specific substrates such as plastics, polycarbonate, etc. may vary among manufacturer to manufacturer, we recommend preliminary compatibility tests.

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