

FIXSEAL + MSP190

HIGH STRENGTH STRUCTURAL MARINE ADHESIVE SEALANT



FIXSEAL+ MSP190

PROPERTIES

FixSeal+ MSP190 is an ultimate high strength one-component adhesive sealant based on MS-Polymer®. The product cures into a very strong flexible rubber, with an excellent adhesion to many marine substrates like timber, fibreglass, carbon fibre, epoxy coated products, glass, ceramic, aluminium, all stainless steels, copper, rough and treated metals and most plastics (consult our technical department).

FixSeal+ MSP190 is suitable for internal and external adhesive sealing operations such as: fly bridges, handrails, windows, hatches, and structural components such as deck to hull joints, timber hull joint seams, bulkheads, keels, bulbs, and other components requiring strong yet flexible adhesion.

FixSeal+ MSP190, thanks to its thixotropic consistency, resists sag, even when applied in reasonable thick layers, does not shrink or crack. The product shows an excellent resistance to fresh and salt water and atmospheric agents, climatic changes and UV rays.



FixSeal+ MSP190 is over-paintable with all water based paints and many other 2 pack paint marine systems it is always advisable to make preliminary paint tests to ensure compatability. FixSeal+ MSP190 is DNV Type approved for Structural Bonding and Direct Glazing and Finishing.

PREPARATION OF SURFACES:

General:

Surface must be clean and dry, free from dust and oil.

Timber:

Structural Timber surfaces use Fixtech **Primer PR10** for preparation work on porous substrates to ensure a sealed surface.

Glass:

For Window Glazing to the vessel prepare the glass with Blackout, use the **wipe on wipe off Activator/Cleaner AC50** on the glass with a clean cloth, wait 1 minute. Paint on with roller or brush the Fixtech **UV Blackout PR30**. **Allow to cure before applying FixSeal+ MSP190** to the boat and applying the glass.

CHARACTERISTICS

	Fast Tack	Slow Tack
COLOUR	Black, White	
CONSISTENCY	Stable Paste	
CURING SYSTEM	Moisture Cure	
SPECIFIC GRAVITY	1.38 g/cm ³ (mL)	
HARDNESS SHORE A	45	
ELONGATION AT BREAK	230%	
MAXIMUM DEFORMING	20%	
TENSILE STRENGTH	> 1.60 N/mm ²	
SHEAR STRENGTH	> 1.57 N/mm ²	
SKIN TIME (23°C - 75% RH)	12 min,	45 min,
CURE RATE (23 °C - 75% RH)	>2 - 3 mm. in 24h.	
TEMP RESISTANCE	From -40°C to + 90°C	
PACKAGING	290mL Cartridge 600mL sausage	
SHELF LIFE, stored at between +5°C & +23°C	Cartridge & Sausages: + 18 months	

IMPORTANT

The above listed information and prescriptions, corresponding to our knowledge and experience, are to be considered as an indicative advice and should be confirmed each time by practical applications.

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APPLICATION

Cartridge: Cut the cartridge at the tip of the nozzle location, screw fix the plastic nozzle and cut according to the extrusion diameter required, extrude from cartridge with a manual **FG3** or **FG5CL** pneumatic gun, and replace cap when not in use.

Sausage: Insert sausage into a manual barrel tool **FG7** or pneumatic barrel tool **FG8**, cut the sausage just behind the clip, screw the front end flange with the nozzle cut to diameter of bead required onto the barrel tool and dispense carefully.

Boat Structure:

Painted Surfaces: Abrade the surface to be adhered to with 180 grit, wipe down with good quality methylated spirits or alcohol cleaner. Ensure both the glass UV blackout strip whether painted on or ceramic fired, and the painted surfaces are clean and free of oil, waxes or dust.

Steel or aluminium: Abrade the surface to be adhered to with 180 grit, wipe down with good quality methylated spirits or alcohol cleaner. Ensure both the glass UV blackout strip whether painted on or ceramic fired, and the steel or aluminium surfaces are clean and free of oil, waxes, oxidation or dust before application:

Fibreglass or carbon fibre, resin or epoxy filled: Abrade the surface to be adhered to with 100 grit, wipe down with good quality methylated spirits or alcohol cleaner, do not apply any sealant if the resins are reactivated wait until the surface is completely dry and there is not sign of any wax residue. Ensure both the glass UV blackout strip whether painted on or ceramic fired, and the gel coat on the fibreglass or carbon fibre or the painted surfaces are clean and free of oil, waxes, oxidation, rust or dust before application.

Once clean and ready for application:

Apply the Fixtech FGT Dam Foam Tape around the perimeter of the hole, either using a double sided or single sided adhesive tape use to offset the glass and create a clean interior, comes in medium density for straight glass or high density if the glass needs to be bent into shape. Glass can only handle bending in one direction.

With dam tape in position cut nozzle with "V" notch on one side 10mm wide and min 10mm high, dispense the FixSeal+ MSP190 around the perimeter ensuring the height of the sealant being dispensed is minimum 2 x thickness of the dam tape or 2 x the size of the height to be filled.

Remove protective barrier to the outer surface of the dam tape and apply the glass window using blocks and guides to ensure you hit it first time right. Push home the glass ensuring positive contact with the glass. Support for 24 hours to ensure good strong fir.

No special primers are required just ensure all surfaces to be adhered are clean, free or any release agents such as oil, grease or wax and adhere.

Cleaning Tools and surfaces: Methylated Spirits or Surface Cleaner immediately after application and before curing

Tooling of Sealant: Windex type water based window cleaner solution used after mechanical tooling has been completed or use diluted neutral pH dishwashing liquid before skin formation.

Repair: Repair with **FixSeal+ MSP190**.

For more information see Fixtech Application sheets for Direct Glazing sheets.

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