Fix100 (MSP) DECKFLEX

Fix100 (MSP100) DeckFlex is a one-component UV resistant marine caulking sealant for Teak, Cork, PVC and composite marine decks.

Fix100 (MSP100) DeckFlex sealant is free from all toxins, including isocyanate, solvents, acids and other toxic components.

Fix100 (MSP100) DeckFlex deck caulking sealant Is a moisture curing specialised application product offering excellent UV resistance, strength and flexible performance properties. The cured product forms a strong elastic deck caulking sealant and can be used in conjunction with Fixtech's bedding adhesive sealants; Fix300 (MSP300) DeckFix or Fix30. Whether the deck is prefabricated or hand laid plank by plank onto the substrate, our system will not gas off or release solvents that produce bubbles that will effect the adhesion or the aesthetics of the deck caulking sealant.

Fix100 (MSP100) DeckFlex will save repair time and money and increase the profit margin by reducing costly and time consuming patch repairs. Fix100 (MSP100) DeckFlex has been developed to work elastically with the typical timber deck movements, and in the most hostile of climates from the heat of the Middle East, to high UV attack in Australia to the cold of the Antarctic. Correctly applied the polymerised product maintains unchanged in its colour, adhesion, strength and elongation characteristics even after many years from application.

Fix100(MSP100) DeckFlex is also a versatile product in that it is also suitable for bedding Synthetic decks onto substrates. Application should always be performed by a professional experienced in laying synthetic decks, as this will reduce the risk of poor application technique. Otherwise it is rather easy to apply and create a professional finish. If a repair should be necessary the product will adhere to its self, as long as the cured piece is cut to reveal fresh cured sealant before applying the repair.

PREPARATION OF THE TEAK DECKS

1). Teak timbers must have a moisture content of less than11% to prevent the sealant cupping as the timber shrinks from drying out. The caulking grooves surfaces must be dry and clean, free from dust oil

and debris, brush out and vacuum away the dust or debris. Fix100 (MSP100) DeckFlex will not shrink after it has cured.

2). If any oil, release agent or some other residue is present in the teak or on the surface of the teak it is best to sand the surface with 80grit sand paper to get back to clean timber. If this is not possible then use Industrial alcohol to wipe clean the surfaces to be joined. Wait till dry.

3). Apply, Fixtech Primer PR10 with a suitable brush on the bottom and on the sides of the joint.

4). Allow drying from minimum 20 minutes drying time and maximum 20 hours. After 20 hours Fixtech Primer PR10 must be reapplied. Ensure surface remains dry, clean and free of dust or debris during this time. Avoiding any wetting of the primer before you apply Fix100(MSP100) DeckFlex. In case of very porous timber surface it is advisable to apply a second coat of Primer PR10, 30 minutes from the first coat.

PREPARATION OF THE CORK DECKS

1). Surfaces of the cork seams must be dry, clean and free from dust and debris.

2). Fix100 (MSP100) DeckFlex can be applied to cork decking without any primers.

BONDBREAKER TAPE INSTALLATION

Bond breaker Tape is not required in typical new

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joints when using Fix100 (MSP100) DeckFlex, where the moisture content of the timber is less than 11% as it has been designed to be extremely flexible. In teak decks where the timber moisture content is higher that 12% and/or if a teak deck is laid on an unstable substrates such as an existing timber deck. In substrates subject to differential movement it is desirable to use bond breaker tape.

Insert the tape into the base of the rebate after priming with PR10 and ensure the adhesive side of tape is facing down and adhering to the already primed timber base. To assist in laying, use a piece of timber with a radius edge to assist in guiding the tape to the base.

APPLICATION OF Fix100 (MSP100) DeckFlex

Extrude Fix100 (MSP100) DeckFlex using an appropriate caulking tool FG4, FG5, FG7 or FG8 into the joint, taking care to eliminate air and fill all spaces. Some professional teak deck manufacturers can caulk the joint and walk away this takes practice and if you are unsure you have filled the seam completely use a steel or plastic spatula to lightly push the sealant down into the joint leaving the sealant some 0.5 to 1.0mm proud of the timber surface.

Do not attempt to clean off, just leave the product and protect the product from rain and traffic for at least 24 hours. It is best to leave for a minimum of 2-3 days to ensure the product has fully cured based on a 5mm x 5mm seam, if the seam is deeper or wider more time is required for it to cure. When the sealant is fully cured it can be sanded.

If you need to work on the vessel cover the deck area with old carpet, plywood or even cardboard after 12 hours from application.

CURING and FINISHING

Fix100 (MSP100) DeckFlex sealant, at 23°C, 55% relative humidity (RH), forms the first 1mm of skin after 35 min and through cures at a rate of 2-3mm every 24 hours, therefore a deck with a 5 x 5mm joint could be finished carefully in 2 to 3 days minimum, we would like to recommend the deck be finished by sanding with a uni-directional sanding tool. Lower temperature and humidity conditions and deeper and wider joint dimensions will prolong the curing time.

It is advisable in any case, to verify the total curing of the product before proceeding to further operations.

RE-CAULKING OF JOINTS

Remove old caulking material. Care and safety measures must always be taken before starting and performing the work required to remove old or damaged caulking. Clean the joints back to bare timber this can be achieved with the use of 80 grit sand paper and a suitable sanding block that fits down into the joint.

Inspect the timber to ensure that they are in good condition, prepare and seal the joints as described in the Section “Application of Fix100 (MSP100) DeckFlex” in this document.

PROPERTIES

Resistance to chemical agents:

Good resistance to fresh and salt water, alphatic solvents, grease, diluted inorganic acids and pH neutral alkalis.

Poor resistance to aromatic solvents, concentrated acids, oils, chlorinated hydrogens and high pH soaps.

Clean Up before Cure: 100% industrial alcohol cleaner or methylated spirits immediately after application and before curing.

Tooling : with soapy solution before skin formation

Repair : Repair any damages with Fix100 (MSP100) DeckFlex.

CHARACTERISTICS	
COLOR	Black
CONSISTENCY	Stable paste, moisture cure
SPECIFIC GRAVITY (20 °C)	1.31 g/cm³
HARDNESS SHORE A (14 days 23°C, 55%r.h.)	35 + 5
ELONGATION AT BREAK	1050% (DIN 53504)
MAXIMUM RECOMMENDED DEFORMATION	+30%
MODULUS AT 100% ELONGATION	0.41N/mm² (DIN 53504)
ELASTIC RECOVERY	> 75%
TENSILE / SHEAR STRENGTH	> 2 N/mm² (DIN 53504)
SKIN FORMATION (23°C, 65%u.r.)	35 min.
THROUGH CURING (23 °C - 55% UR)	2 - 3 mm / 24 hours
TEMPERATURE RESISTANCE (Fully Cured)	from -40°C to 100°C
APPLICATION TEMPERATURE (Surface)	from +5°C to +30°C
CONTAINER SIZES	290mL cartridge, 600mL sausage