



# FM30 Fuel Master Sealant

**FM30** is a 2 part polysulfide paste specifically designed and certified for fuel tank bonding and sealing as well as structural bonding in areas where fuel will be present.

FM30 is a quick turn around, rapid cure, good working time adhesive sealant for use in marine, automotive, industrial and selected aircraft fuel tanks.

FM30 is paste like in nature and with a non sag consistency. After mixing to two components thoroughly together FM30 can be readily applied by a spatular or a filler bag technique "bog bag – cake decorating bag" to form the adhesive seal.

FM30 will cure to a 100% fuel resistant rubber at temperatures above 5°C and exhibits excellent tooling performance properties with very low shrinkage. FM30 has also been tested at the University of Queensland, Australia and passed 1000hr emersion tests in diesel, seawater v/s air curing and shows no sign of adhesion loss on fibreglass resin coated substrates. FM30 is ideal for construction and sealing of fuel tanks including all penetration fittings, inspection hatches, lids, baffles. FM30 is also suitable for repairs to leaky fuel tanks with a 6 hour turnaround time. That is empty, clean prepare surface to repair, apply FM30 and in 6 hours replace the fuel and go.

Certification:

FM30 (30 minute working time) meets the following USA specification and every batch manufactured is strictly tested and certified to comply with the following standard; American Aerospace Material Specification (AMS-S-8802A) Sealing Compound Temperature resistant, integral Fuel Tanks and fuel Cell Cavities, High Adhesion".

**PREPARATION OF SURFACES:** Quick rule; Surface must be clean, dry free from dust, release agents, grease and oil. For best results clean all non-porous surface to be bonded with an good quality 100% industrial alcohol cleaner or methylated spirits (do not use paint prep. As that may contain oils). Abrade the surface well with 80 -180 grit sand paper until a mechanical key is formed and the top layer of substrate is removed. Clean again with a good quality 100% industrial alcohol cleaner or methylated spirits and remove any spoil or contaminants.



## Friendly warning:

Do not apply Acetone to unfinished fibreglass composite as a pre cleaner, as it may reactivate the resins making the fibreglass sticky and will prevent adhesion. If the surface is sticky wait until the surface is completely dry sand/abrade the surface again and clean down with an industrial alcohol cleaner or methylated Spirits. We do not recommend the use of paint preparation solvent as it may contain oil or wax residue.

## MIXING OF CONTAINERS

1. Before mixing the 2 parts together, stir the accelerator (Black) to an even consistency.
2. To mix. Add one part of accelerator (black) by weight to ten parts of the base compound (White). We always recommend you mix the kit together as it is perfect in ratio and no mistakes should occur. Add the contents of the accelerator (Black) to the base compound (white) and blend well to form an even grey colour.
3. Make sure you blend the entire contents of the base compound and activator together especially at the base and sides of the canister.
4. Place a "Filler Bag" or even a disposable cake decorating bag (strong one) and place into an empty canister turning the Filler bag over the canister wall with the nozzle down into the base of the canister. Scoop out the mixed contents of FM30 into the Filler Bag and once all is dispensed into the bag, close the bag, and begin to dispense the contents onto the





surface area to adhere and seal.

5. Once completed dispose of the bag with contents appropriately.

6. Once cured the contents in the bag are inert and can be disposed off in the normal way.

COLOUR	Base Compound (White) Accelerator (Black) – Blended is light Grey.
CONSISTENCY	Thick Paste
CURING MECHANISM	2 pack chemical cured
SPECIFIC GRAVITY	1.61g/mL
SKIN FORMATION (23 °C - 55%r.h.)	Approx. 30 Min.
THROUGH CURING SPEED (23 °C - 55%r.h.)	6hours to emersion in fuel, full strength 7 days.
CHANGE IN VOLUME	5%
HARDNESS SHORE A	60
MAXIMUM DEFORMATION	Will bend 180°C over a 6mm mandrel
ELONGATION AT BREAK	+300 %
TENSILE STRENGTH	>2.0 N/mm2 (ISO 8839)
SHEAR STRENGTH	>2.0 N/mm2 (ASTM D1002)
TEMPERATURE RESISTANCE (Fully Cured)	From –54 °C to +121 °C up to 182°C Intermittent
PACKAGING	500mL kit 10:1 Ratio
SHELF LIFE	9 months stored in a cool and dry place from Production

