

VERY FAST CURE HIGH BUILD EPOXY

EPAR MP Fast Set

TECHNICAL DATA

1.0 DESCRIPTION

EPAR MP FAST SET is a high viscosity, moderately filled epoxy with excellent mechanical properties and very fast cure. EPAR MP FAST SET is a high build material used as a consolidation compound to bind loose surfaces and provide a suitable surface for further adhesion of various articles to asphalt and concrete.

2.0 PHYSICAL PROPERTIES:

2.1	Viscosity at 20 °C	Moderately high. Similar to treacle.
2.2	Mix Ratio	1 part resin : 1 part hardener by volume.
2.3	Pot Life	3 minutes at 20°C.
2.4	Cure Time	Less than 10 minutes at 20 °C. Will initially cure to a flexible rubbery consistency but will harden up over several hours.
2.5	Minimum Application Temp.	0 °C.
2.6	Shelf Life	1 year in original unopened containers.
2.7	Cured Properties	(As supplied, cured at 20°C for 7 days)
2.7.1	Colour	Pale grey, opaque
2.7.2	Specific Gravity	1.5
2.7.3	Compressive Strength	Not yet determined.
2.7.4	Compressive Modulus	Not yet determined
2.7.5	Tensile Strength	Not yet determined

3.0 USES

- 3.1 Consolidating friable surfaces and providing a strong stable surface for adhesion of various articles to asphalt and concrete surfaces.
- 3.2 Providing a suitable moulded shape for insertion of various articles into road surfaces by the use of suitable polyethylene moulds. EPAR MP FAST SET does not adhere to polyethylene and provides a quick easy release to facilitate rapid completion of the job.
- 3.3 General rapid patching and repair of concrete and asphalt (horizontal surfaces only) prior to painting or finishing by other methods.

4.0 APPLICATION INSTRUCTIONS

- 4.1 SURFACE PREPARATION. Although EPAR MP FAST SET will tolerate a certain amount of dust and moisture, it is preferable to use a blower to blow out any loose material and moisture and to dry the surface as much as possible. DO NOT apply EPAR MP FAST SET to any surface with standing water on it.



Fraser Brown & Stratmore Ltd

HEAD OFFICE: 185 Rata Street, Naenae, Lower Hutt. PO Box 35 136, Naenae, Lower Hutt
Phone: (04) 567 8436 Fax: (04) 567 7232 Email: info@fbsltd.co.nz www.fbsltd.co.nz

Products for Concrete and Construction

The information contained in this data sheet, is to the best of our current knowledge, true and accurate, but any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Buyers and users are urged to make their own assessment of our products under their own conditions and for their own requirements. Fraser Brown & Stratmore Ltd reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions.

EPAR MP FAST SET

TECHNICAL DATA – APPLICATION INSTRUCTIONS Continued

- 4.2 MIXING. (1) TWIN CARTRIDGES: EPAR MP FAST SET is best dispensed from a twin cartridge with a static mixing nozzle. Remove the original plugs and set aside for resealing the cartridges when finished (do not get them mixed up). Attach a new static mixing nozzle using the same nut that held the plugs in place. Prior to using, dispense and discard a 15-30 cm bead of material until a uniform, streak-free colour is obtained. An even grey colour with no black or white streaks should result. Material should continue to be extruded through the nozzle every two minutes otherwise it will cure in the nozzle. If this occurs, the nozzle must be removed immediately and either a new nozzle attached or the cartridges sealed with the original plugs, otherwise resin or hardener may migrate from one side to the other and cause a blockage inside the respective cartridge, which is not easily cleared. Note: Be careful to use the same plugs on each cartridge without getting the resin and hardener plugs mixed up.
- 4.3 (2) HAND MIXING: It is recommended that not more than 800 mL be mixed at a time. Accurately proportion equal volumes of resin and hardener ensuring this amount can be used within its pot life. [NOTE: Mix ratio **by weight** is 1.00 part resin to 0.92 parts hardener.] **Mix thoroughly and quickly** preferably using a flat bladed stirrer or strong inflexible spatula or knife, scraping the sides and bottom of the container as much as possible. An even grey colour with no black or white streaks should result. The material should be mixed and used within 2 minutes. Any material starting to gel should be disposed of and not used. A warming of the container is the first sign of the impending end of pot life. Beware of the heat generated by large volumes, which can melt a plastic container and cause burns.
- 4.4 PRIMING. No priming is necessary. Note that EPAR MP FAST SET is only suitable for concrete and asphalt surfaces. It is not designed to adhere to plastics.
- 4.5 FINISHING: EPAR MP FAST SET will slowly level during cure so should not be used on highly sloping surfaces unless it is contained in a depression or similar shallow hole. The amount of flow will be dependent on temperature of the material prior to use. It can be warmed to increase flow but note that both pot life and cure time will be reduced. Left alone, it will give a level surface but can also be spread with a trowel, spatula, or similar implement, although it will stick to implements and not give as smooth a finish as when left alone. The use of water to assist in finishing IS NOT RECOMMENDED.
- 4.6 EPAR MP FAST SET will initially cure to a strong, flexible, non-sticky rubbery consistency and application of further finishing adhesives, etc. can then proceed without delay, although it is recommended that it be allowed to cool if paint is to be applied. EPAR MP FAST SET will subsequently harden up and lose flexibility over several hours.
- 4.7 CLEAN-UP. Tools and equipment may be cleaned before hardening commences by washing with EPAR CLEAN UP SOLVENT. Clean hands and skin with soap and hot water. After hardening, EPAR MP FAST SET may be picked off plastic implements without adhering or may be scraped off or abraded from other articles after final cure.
- 4.8 EPAR MP FAST SET may be overcoated with other epoxies or polyurethane compounds, adhesives or coatings once cured. Allow to cool and stabilise before painting. If left for more than 24 hours after cure, it is advisable to test adhesion of any subsequent coats. If found necessary, EPAR MP FAST SET may be sanded or abraded by other means to improve adhesion.

5.0 PRECAUTIONS

- 5.1 Resin may increase in viscosity slightly on prolonged storage but may be warmed and stirred to a suitable viscosity before reuse.
- 5.2 For bulk packs, hardener is supplied covered with a plastic membrane to exclude air. It will skin up on surface if left uncovered. Any skin should be thoroughly and carefully scraped off surface before mixing, unless the user does not mind the presence of undispersed bits of skin evident in the final finish. Skinned hardener should not be loaded into twin cartridges unless the skin is scrupulously removed. Any skin present will clog up the mixing nozzle.
- 5.3 Beware of the heat generated from a large volume of mixed compound. The plastic container could melt and the material may spill. Serious burns may result on contact with hot material.
- 5.4 New concrete surfaces should be cured for at least one week before application of EPAR MP FAST SET.

6.0 PACKAGING

800mL and 40 L packs. Also available in 600 mL twin cartridges (minimum order quantity applies).