

# EPOXY MORTAR for Concrete Fixing & Repair

## EPAR 705

### TECHNICAL DATA

#### 1.0 DESCRIPTION

A two part, non-slump epoxy mortar formulated to give a strong bond to dry or damp concrete, steel, glass, aluminium etc. EPAR 705 is non-shrink and has excellent chemical resistance. Also available with a cold cure hardener for use from 0°C - 10°C and a 5 minute hardener which has a 5 minute pot life and 10 minute initial set time.

#### 2.0 PHYSICAL PROPERTIES

2.1	Viscosity	Non Slump.
2.2	Mix Ratio	1 : 1 by weight or volume.
2.3	Pot Life	1 - 1.5 hours at 20°C. Std hardener.
2.4	Minimum Application Temp.	10°C. Std hardener. 0°C cold cure & 5-min. hardener.
2.5	Shelf Life	1 year in original unopened containers.
2.6	Cured Properties	(Standard hardener at 20°C)
2.6.1	Colour	Grey.
2.6.2	Specific Gravity	1.78
2.6.3	Compressive Strength	48 MPa 1 day, 65 MPa 7 days.
2.6.4	Compressive Modulus	13 GPa.
2.6.5	Tensile Strength	20 MPa.
2.6.6	Thermal Expansion	5 x 10 <sup>-5</sup> mm/mm/°C.

#### 3.0 USES

The excellent mechanical properties of EPAR 705 combined with ease of use make it an extremely versatile product.

Common uses for EPAR 705 include the following:

- 3.1 Bedding and jointing of precast concrete units.
- 3.2 Repair of damaged or spalled concrete and protection of reinforcing.
- 3.3 Levelling and patching of concrete floors under heavy load or impact.
- 3.4 Grouting of starter bars and bolts particularly horizontal or overhead.
- 3.5 Fabrication of concrete pipe intersections and general drainage work.

#### 4.0 APPLICATION

- 4.1 SURFACE PREPARATION. Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance should be removed from concrete surfaces mechanically or by acid etching. For best results steel surfaces should be prepared by sand blasting or grinding.

# EPAR 705

---

## TECHNICAL DATA Continued

---

- 4.2 **MIXING PROPORTIONS** – 1 : 1 by volume or weight. Mix the two parts THOROUGHLY by machine, spatula, or by hand until a uniform grey colour is obtained. Wear protective gloves and apply a barrier cream to exposed skin. Wet gloves in water to prevent sticking of EPAR. Shake off excess water. Avoid mixing water with EPAR as this may interfere with the final set and hardness.
- 4.3 In cold weather the resin and hardener may be softened by placing the containers in hot water.
- 4.4 **APPLICATION.** EPAR 705 should be worked well into the surface to be filled or bonded. Initially a thin smear should be applied to ensure the surface is properly 'wet' with epoxy. After applying this initial layer more EPAR 705 may be applied to the desired thickness. Both surfaces should be coated with EPAR 705 before being joined. A smooth surface can be obtained by wiping with a wet cloth or trowel.
- 4.5 If being placed under water, avoid involving water into the mixed EPAR. Use minimum amount of handling when placing and finishing.
- 4.6 **CLEAN UP.** Hands and equipment should be washed in soap and water before curing is advanced.

## 5.0 ADDITIONAL INFORMATION

Gloves must be worn when handling epoxy products. Read product labels before use.

Keep out of reach of children. Avoid contact with skin and eyes.

For 5 and 15-minute versions, avoid mixing large amounts of epoxy that cannot be used within the pot life of 5 or 15 minutes.

For optimal performance with any epoxy system it is important to:

1. Proportion the hardener and resin accurately.
2. Thoroughly mix together until of an even colour and consistency.
3. Use the correct product for the conditions, especially during cold weather.

If potable water certification is required, then refer to EPAR EM Epoxy Mortar.

## 6.0 PACKAGING

900 gm pack (2 x 450gm) - approx. volume 0.5 litres

1.8kg pack (2 x 900gm) - approx. volume 1 litre

3.6kg pack (2 x 1.8kg) - approx. volume 2 litres

16kg pack (2 x 8kg) - approx. volume 9 litres

Refer to Product Safety Data Sheet for handling and first aid information.



Leading solutions for construction.

The information contained in this data sheet, is to the best of our knowledge accurate and any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Users are urged to make their own assessment of our products under their own conditions and for their own requirements. Stratmore Construction Solutions Limited reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions. This data sheet may be updated without notice. Please ensure you have the latest copy. If you are a customer, then any contract with you is in accordance with our latest terms and conditions, which are available to download from our website. Where goods are acquired for business purposes, Parts 1 to 4 of the Consumers Guarantee Act 1993 will not apply. To the maximum extent permitted by law, we have no liability (whether statutory, in contract or tort, including negligence) to buyers, users or specifiers of our products for any physical, direct or indirect damage, economic loss or any other loss or costs caused or contributed by us or any of our agents or employees in respect of any goods or services supplied. Also to the maximum extent permitted by law, all conditions and warranties expressed or implied by statute or common law, equity, trade custom or usage or otherwise howsoever are excluded. If, notwithstanding the foregoing, Stratmore Construction Solutions Limited is found to have any liability, then it is agreed that the liability is nevertheless limited to the price of the relevant goods or services purchased from us.

