

DESCRIPTION

FACTORep ELM is a three component, solvent free trowelable epoxy mortar.

TYPICAL USES

It is a high strength non shrink mortar suitable as a bedding for repair of concrete surfaces such as: manhole rehabilitation, industrial & parking floors, cracks arising in roads, bridge decks, patch repair works, airport runways, sidewalks, precast units.

ADVANTAGES

- Excellent resistance to abrasion. Impact resistant
- Excellent chemical resistance. Unaffected by a wide range of acids, alkalis, and industrial chemicals.
- Can be used as a bedding mortar and structural repair mortar.
- Used in brick, block and all concrete manholes, including precast elements.
- Rapid hardening. Curing is not affected by high humidity.
- High mechanical strength,
- Solvent free and non shrink
- Supplied in pre-weighed packed material, ready for onsite mixing

PACKAGING

10 ltr set (3 component: Part A- Base, Part B – Hardener, Part C – Filler)

PROPERTIES (TYPICAL PROPERTIES at 25°C)

Property	Test method	Value
Colour		Grey
Mixed Density	ASTM D 1475	2.20 kg./ltr +/- 0.05
Potlife		45 +/- 10 mins
Compressive Strength	BS 6319-2	84 N/mm ² at 7 days
Flexural Strength	BS 6319-3	25 N/mm ² at 7 days
Tensile Strength	BS 6319-7	14 N/mm ² at 7 days

Property	Test method	Value
Bond Strength	ASTM D 4541	>2.5 N/mm at 7
Solid Content	ASTM D 1475	100% (Solvent free)
Application temperature		+5° C to +41° C
Water Penetration	BS EN 12390-8	Nil
Chemical resistance	ASTM D543	Resistance to range of alkalis, solvents acids, fuels, etc.

APPLICATION INSTRUCTION

SURFACE PREPARATION

Surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding

SUBSTRATE PRIMING

Surfaces to receive FACTORep ELM to be primed using FACTORep Primer EP. This primer should be mixed in the proportions supplied, adding the entire content of the “Hardener” pack into the “Base” pack, then the whole mix to be mixed together for 3 minutes, before the primer is applied to the surface.

APPLICATION

While primer is still tacky spread the material and trowel firmly into place. Empty the entire contents of hardener into base container and mix thoroughly with a slow speed heavy duty drill attached with mixing paddle for 2 to 3 minutes. Slowly add the filler into the mixed epoxy resin and continue mixing until a uniform mix is achieved.

The mixed material should be used at once. It should be applied to the prepared surfaces with a spatula or steel trowel, pressing the mortar firmly to the surface to achieve a better adhesion.

For large volumes, apply in layers ensuring the previous layers have hardened and cooled.



APPLICATION THICKNESS

In general 3 mm to 40 mm in a single layer depending on the application temperature. To avoid sagging on vertical surfaces, it is preferred to use up to 12 mm in a single layer.

COVERAGE

0.33 m²/ltr at 3 mm thickness.

LIMITATIONS

At higher temperatures **PACTORep ELM** will have very low pot life. It should not be used if there is running water during application or before setting of material. Part mixing of material should be avoided.

STORAGE AND SHELF LIFE

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

EQUIPMENT CLEANING

Clean all equipments and tools with PAC Cleaner immediately after use. Hardened material can be removed mechanically.

HEALTH & SAFETY

PPE's: Gloves, goggles and suitable mask must be worn.

Precautions: Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.

Hazard: It is not readily flammable but combustible. It is regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. To be disposed off as per local rules and regulations.

For Additional Information pls refer to MSDS available on request.



P.O. Box no 282 676 Dubai-UAE
 Tel: +971 4 885 0 886
 Fax: +971 4 885 0 887
 Visit us: www.pactechnologies.ae

Important Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. PAC Technologies shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional Information contact your local PAC Technologies