



TECHNICAL DATA SHEET

EM MORTAR

Epoxy Mortar

Etepox Solution Ref. ESSB 15/10

Product Description

EM MORTAR is a solvent free three component Epoxy resin filled with EM MORTAR silica sand mixture apply 3mm – 10mm thick. Epoxy Mortar screeds are not color stable if exposed to UV light or under influence of weathering. We recommend to apply a color stable coatings.

Typical Uses

Areas for use in industrial floor, warehouse, chemical plants, manufacturing areas and car parks. To provide where the subjected to heavy traffic, impact and chemical areas.

Benefits

- 1) Solvent free, low odor.
- 2) Seamless & hygienic finish when sealed.
- 3) Low maintenance.
- 4) High impact resistance.
- 5) Heavy duty for traffic.
- 6) Excellent chemical resistance

Physical Data			
1. Colors	Natural	8. Pot Life (28°C)	45min
2. Density at 28°Cg/ml(mixed)	2.2±0.1g/cm ²	9. Packing Size	50kg
3. Adhesive Strength	>2.0Mpa(Concrete failure)	10. Material Consumption	2.2kg/mm@m ²
4. Compressive Strength	60N/mm ²	11. Impact Resistance (<i>BRE Screed tester</i>)	0.3mm
5. Flexural Strength	30N/mm ²	12. Shelf & Storage (Unopened and in good conditions temperature 5°C to 30°C).	12 month
6. Tensile Strength	22N/mm ²	13. Curing Time	20°C 30°C
		Light Traffic	24hrs 16hrs
		Full Traffic	72hrs 48hrs
		Fully Cured	10days 7days
7. Mixing Ratio (kg) PART A: PART B: PART C	4:1:45		

SUBSTRATE REQUIREMENT & PREPARATION

Substrate concrete or screed should be a minimum of compressive strength 25N/mm² and adhesive pull-off strength of minimum 1.5N/mm² (concrete failure) Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Crack and hollows should be properly remedied. Rough contaminations and high spots can be removed by grinding. The substrate should be clean and free from laitance, oil, dust, paint residues, algae, loose and friable material must be completely removed from all surfaces before application of the product.

MIXING

Pour total Part B into the Part A container and mix both liquid part thoroughly for one minute by using a suitable electrical stirrer (with 750 watt high power mixer) until a fully homogenous mix has been achieved, transfer PART A & PART B (mixed) to a forced action mixer e.g. a crete angle and mix with aggregate until uniform.

APPLICATION

Apply Epoxy EM Prime can be use by suitable roller as a primer for sealing well the substrate porosity. Usually within 8 hours ~ 14hours; Epoxy EM Prime cured, then only allow to do another coat of Epoxy EM Prime. Apply the mixed Epoxy Moratr, within 1 hours of priming (i.e. while the priming coat is still tacky), and spread the screed onto the primer floor with screed box as per requirement thickness, compact and finish using a steel blade trowel or power float.

SEALING

Can apply one or two coat of SC Compound to do the scratch coat to seal the porous surface.

CLEANING OF TOOLS

Clean all the tools and application equipment with Washing Thinner before the product hardens.

TEMPERATURE CONDITIONS OF APPLICATIONS

Do not apply when the relative humidity exceeds 90% or when the surface to be coated is less than 5% above the dew point. Do not apply temperatures below 5°C and temperatures above 40°C

Maintenance and care after cure

We recommend basic cleaning and maintenance will prolong the life of polyurethane floors, clean regularly using a single or double headed rotary scrubber drier in conjunction with alkaline detergent.

Further Information

Warning and precautions information relating to the safe handling of this product should be found in Material Safety Data Sheet. To be advise to put on suitable clothing and eye-ware for protection purpose. The application area/site must be in good ventilation otherwise advisable to use a portable exhaust fan.