

TECHNICAL DATA SHEET

D12 3 ACID PROOF EPOXY MORTAR

V2-23/03/2024

DESCRIPTION

D123 Acid Proof Epoxy Mortar is a heavy-duty, acid proof repair and screeding system used for hard wearing floor areas that are exposed to strong acids.

PROPERTIES

- Compressive strength: > 80mPa
- Flexural strength: 32mPa
- Bond strength: Concrete Fails

RECOMMENDED AREAS FOR USE

Used for floor areas exposed to high traffic along with chemical & solvent spillage. Such as: mining, water waste treatment, paper & pulp, sugar refining, food factories, dairies & breweries. Also used as a concrete repair mortar, rail grout, acid proof tile grout and bridge nosing compound.

COLOUR (RESIN)	: Clear
Nº. OF COMPONENTS	: 3 (Base : Activator : Aggregate)
MIXING RATIO	: 1.75lt : 1.25lt : 25kg
CONSISTENCY	: Liquid (Resin), Sand (Aggregate)
VOLUME SOLIDS	: 100%
MIXED DENSITY (RESIN)	: 1.12
PRACTICAL SPREAD RATES	: 12 litres = 2m ² @ 6mm
DRY FILM THICKNESS	: 6 mm
POT LIFE @ 25°C	: 40 min
HARD DRY @ 25°C	: 8 hrs
LIGHT TRAFFIC @ 25°C	: 24 hrs
FULL CURE	: 7 days
APPLICATION TEMPERATURE	: 10 to 40°C
OPERATING TEMPERATURE	: -20°C to +80°C
CLEANING EQUIPMENT	: D701 WSBC
STORAGE TEMPERATURE	: 10 to 40°C
SHELF LIFE	: 12 months
PACK SIZE	: 12 litres (28kgs)

CHEMICAL RESISTANCE

Resistant to most acids & alkalis, including 98% Sulphuric Acid, 37% Hydrochloric Acid, 50% Sodium Hydroxide, petroleum products & Aliphatic Solvents.

SURFACE PREPARATION

All surfaces must be clean & mechanically sound and free of oil, dirt & dust. Concrete and cement screeds to preferably have a wood float finish, with a minimum compressive strength of 25mPa. Abrasive blast, diamond grind or acid etch to remove laitance.

PRIMING

Prime with D123 Acid Proof Epoxy Resin @ 5m²/lt. Trowel the mortar onto the wet primer.

APPLICATION

Thoroughly mix the resin and the activator in the proportions given, then add the aggregate using a slow speed mechanical mixer. Pour the mixture onto the floor to slow down the exothermic reaction. Using a screeding bar apply the epoxy screed to a normal thickness of 6mm using a nylon or PVC float. Keep wiping the float with water. Allow to cure for at least 12 hours then seal with specified sealer. Allow the resin to cure for a total of 7 days before exposing it to strong acids.

SPECIAL NOTES

- Allowance must be made for expansion joints. manufactures a flexible polyurethane joint sealant (D601).
- also produces a non-shrink epoxy grout (D311) for machine bedding, bolt fixing, vertical surfaces and underwater curing system.

TOXICITY

Although D123 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to. Refer to the 16-Point Material Safety Data Sheet.

HOW TO SPECIFY

All areas to be prepared, primed and screeded with D123 Acid Proof Epoxy Mortar to a minimum thickness of 6mm in accordance with the manufacturer's instructions.

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.