

TECHNICAL DATA SHEET

P304

V2-31/03/2024

UNDERWATER CURING EPOXY MORTAR

DESCRIPTION

P304 Underwater Curing Epoxy Mortar is a heavy-duty repair and screeding system for hard wearing areas. The system uses a hydrophobic epoxy resin which will bond to damp surfaces and cure under water.

PROPERTIES

- Compressive strength: >96 n/mm² astm 695-85
- Tensile strength: 18 n/mm² astm p638-76
- Flexural strength: 34 n/mm² astm p790-86
- Bond strength: Concrete Fails.
- Good Adhesion
- Moisture Tolerant

COLOUR	: Natural Brown
Nº. OF COMPONENTS	: 3 (Base : Activator : Aggregate)
MIXING RATIO	: 2lt : 1lt : 25kg
CONSISTENCY	: Thick Mortar
VOLUME SOLIDS	: 100%
MIXED DENSITY (RESIN)	: 1.09
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 +60°C
STORAGE TEMPERATURE	: 10 to 40°C
CLEANING EQUIPMENT	: P701 WSBC
SHELF LIFE	: 12 months
PACK SIZE	: 12 litres (28kg) Total

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, tile grout and bridge nosing compound.

CHEMICAL RESISTANCE

Resistant to most dilute acids & alkalis, petroleum products & salt water.

SURFACE PREPARATION

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

PRIMING

Prime with P304 Underwater Curing Epoxy Mortar 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 xylene. Allow to cure for at least 12 hours then seal with specified Pendong sealer.

SPECIAL NOTES

- Allowance must be made for expansion joints. Pendong manufactures a flexible polyurethane joint sealant (p601).
- Pendong also produces a non-shrink epoxy grout (P311) for machine bedding, bolt fixing, vertical surfaces and underwater curing system.

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.



TOXICITY

Although P304 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resinsystems be adhered to.

HOW TO SPECIFY

All areas to be prepared, primed and screeded with P304 Underwater Curing Epoxy Mortar to a minimum thickness of 6mm in accordance with the manufacturer's instructions.

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