

IDEAL MALTA 05

Two-component thixotropic epoxy mortar

DESCRIPTION

- Very high mechanical resistance
- High shock and abrasion resistance
- No solvents
- Excellent resistance to acid, alkali and solvent
- Excellent adhesion to concrete, bricks, stone, wood and iron
- Good waterproofing.
- Excellent workability, even on vertical and overhead substrates
- Cures without shrinking on high and low thicknesses

FIELDS OF USE

- To fix concrete, brick and stone substrates.
- To restore corners, steps, small walls, balconies, concrete bases, expansion joint contours and concrete floors.
- To fill voids, bearers and bases.
- To protect stratified substrates exposed to chemicals and mechanical abrasion.
- To fill voids and cracks due to rust and armature or due to mechanical actions of sandblasting machines or bush-hammering.

SURFACE PREPARATION

- The foundation must be clean, sound, dry and free from crumbly portions or cement grout.
- In order to obtain excellent adhesion, surfaces should be rough.
- The most suitable treatment is sandblasting, particularly for the mechanical parts.
- Protect any exposed armature irons with epoxy or dust primer.
- Apply mortar by casting Ideal Rock adhesive promoter.

APPLICATION

- Pour component B into component A and mix by means of a low-speed stirrer (electric drill or Minimix mixer) for at least 5 minutes.
- Mortar must look homogeneous before application.
- Apply mortar, respecting the utilisation time schedule (see table), by means of a trowel, a hand trowel or any other suitable tool.
- IDEAL MALTA 05 can be applied to high or low, thin or thick substrates without any problem related to curing or shrinkage. For thicknesses of approx. 3cm or more in vertical substrates, it is recommended to support the mortar by a table or a formwork until it stops curing.

TECHNICAL SPECIFICATIONS

Chemical resistance after 1-day curing at 23°C

Contact time (months)	1/2	1	2	3	4	5	6	7	8	9	10	11	12
Deionised water	+	+	+	+	+	+	+	+	+	+	+	+	+
Synthetic sea water	+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphuric acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphuric acid 30%	+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphuric acid 50%	+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphuric acid 70%	+	+	0	0	0	0	0	0	0	0	0	0	0
Hydrochloric acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Nitric acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphoric acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Acetic acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Lactic acid 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Ammonia	+	+	+	+	0	0	0	0	0	0	0	0	0
Sodium hypochlorite 14%	+	+	+	+	+	+	+	+	+	+	+	+	+
Ethanol 10%	+	+	+	+	+	+	+	+	+	+	+	+	+
Ethanol 20%	+	+	+	+	0	0	0	0	0	0	0	0	0
Glycerine	+	+	+	+	+	+	+	+	+	+	+	+	+
Premium grade fuel	+	+	+	+	+	+	+	+	+	+	+	+	+

+ = resistant 0 = attacked

Mechanical resistance after 1-day and 7-day curing at 23°C

	U.M.	1 day	7 days
Compression resistance	N/mm ²	>40	>70
Resistance to bending	N/mm ²	>10	>25
Modulus of elasticity	N/mm ²		>16,500

Utilisation time (Pot life)

After mixing, the two components start reacting. Workability time is therefore limited and depends on the temperature.

TEMPERATURE	PRIMER	IDEAL MALTA 05
15°C	180 min.	240 min.
25°C	100 min.	120 min.
35°C	50 min.	70 min.

COVERAGE

IDEAL ROCK	0.4 - 0.6kg/m ²
IDEAL MALTA 05	20kg/m ²

Average thickness = 1cm.

PACKAGING AND STORAGE

A + B: 5kg, 10kg or 15kg.

IDEAL MALTA 05 and IDEAL ROCK primer remain unchanged for at least 12 months at temperatures from 10°C to 30°C in their original containers.

WARNINGS

- To clean tools, use solvents such as acetone, alcohol, Toluol and trichloroethylene.
- Epoxy resins and hardeners can cause irritation. Please avoid skin contact and splashes into the eyes.
- Wear gloves and working suits. Those who have to work over a long period with epoxy resins should use a protective cream, such as Turexan.
- If contaminated with epoxy resin or mortar, wash immediately with water and soap or with a special paste, such as Kerocleanse 22. Do not wash with solvents.
- In case of splashes into the eyes, wash immediately with running water for 10/15 minutes then call a physician.
- Do not use empty containers of resin or hardener to store other substances or foodstuffs.

IMPORTANT:

All the information contained in this sheet is based on the best practical and laboratory applications. It is the customer's responsibility to check the product is suitable for the intended use. The manufacturer declines any responsibility for wrong application. It is recommended to carry out tests on small areas before application. This sheet replaces and cancels any previous one. The data contained can be changed at any time. Ideal Work products are for professional use and the company organises periodical training for its customers on demand. Anyone who uses these products without qualification takes all the associated risks.

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