

IDEAL MALTA 01

Epoxy mortar for repairs of concrete structures.

DESCRIPTION

- High quality mortar for static and dynamic stresses with high mechanical characteristics.
- Excellent sealing capabilities.
- Impermeable.
- Excellent workability.
- No need for primer.
- Fast curing.
- Excellent adhesion to concrete, metal, stone and wood
- Adheres well to wet substrates.
- No decanting or stratification, even with high thicknesses.
- High electrical isolation.
- Pre-dosed and packaged into two components, so errors are avoided.

USES

- Casts in bridge bearing plates, pillars, bearers and base plates.
- Locks and injections under rails for cranes, trolleys and precision machines.
- Fast repair of cracked floors and joints.
- Iron casting of steel bars, tension bars, rails and poles.
- Filling of the joints of prefabricated elements.
- Filling of pipe joints and undersized pipes.

SURFACE PREPARATION

The surfaces to be treated must be clean, sound, free from crumbly portions and grout and dry.

- In order to obtain excellent adhesion, metal surfaces must be rough and must have undergone sandblasting.
- Whenever it is necessary, have proper formwork with a supply hopper and outlet vent.
- In order to prevent the mortar from adhering to the formwork, apply a stain remover or a polyethylene film.

APPLICATION

- Pour component A into component B.
- Mix by means of a low-speed stirrer (electric drill) for approx. 5 minutes. Also remove excess material on the walls and in the corners.
- Do not let too much air in during mixing.

TECHNICAL SPECIFICATIONS

Mechanical properties after 7-day curing

CURED MORTAR DENSITY AT 25°C	G/cm ³	>1.9/2.1
COMPRESSION STRENGTH	N/mm ²	>90
RESISTANCE TO BENDING	N/mm ²	>35
APPROX. MODULUS OF ELASTICITY	N/mm ²	>13000
TEARING RESISTANCE		
On concrete	N/mm ²	>4
On metal	N/mm ²	>10
GLASS TRANSITION POINT	°C	Approx. 50

Use time (Pot life)

After mixing, the components start reacting.

Time is therefore limited and dependent on temperature.

TEMPERATURE	TYPE N	TYPE R
10°C	-	120 min.
15°C	80 min.	80 min.
25°C	50 min.	50 min.
35°C	20 min.	-

Curing in relation to temperature

COMPRESSION RESISTANCE TIME

		15°C	25°C	35°C
4h	N/mm ²	-	-	20
8h	N/mm ²	-	25	75
12h	N/mm ²	10	70	90
24h	N/mm ²	20	90	90
48h	N/mm ²	55	90	90
7gg	N/mm ²	90	90	90

COVERAGE

2 kg/m² - thickness 1 mm.

PACKAGING AND STORAGE

A + B: 5kg, 10kg or 20kg

In original containers and closed, the product lasts at least 12 months at a temperature of 10-30°C.

TOOL CLEANING AND HYGIENIC PRACTICE

- To clean tools, use solvents such as acetone, alcohol, Toluol, trichloroethylene or other.
- 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 and 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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