

EPOX MALTA AL RAPID

FAST-SETTING, HIGH-THICKNESS
SELF-LEVELLING EPOXY MORTAR



DESCRIPTION

EPOX MALTA AL RAPID is a three-component (A+B+C) self-levelling, fast-curing (at 20°C, trafficable in 6/8 hours) epoxy formulation for the casting of joist joints and the repair and restoration of cracks, fissures, and contraction joints in degraded and corroded industrial flooring, with thicknesses from 0.5 to 2 mm. Components are supplied pre-measured.

FIELDS OF USE

It is suitable for reconstructing damaged joints in flooring, even in thick layers where the floor needs to be put back into service as quickly as possible. EPOX MALTA AL RAPID is used in the industrial sector for the following applications:

- For the repair and surface restoration of degraded and corroded flooring;
- For the volumetric restoration of potholes and cracks.

It is generally used in all cases where rapid maintenance is required, such as: flooring for ramps, piers, industrial warehouses, storage facilities, chemical plants, food industries, etc

PACKAGING

Components A+B+C = 5+1.5+13 kg

CONSUMPTION

Primer (A+B)

0.30-0.40 kg/m²

Reconstruction mortar (A+B+C)

Approximately 17.5 kg/m² per centimeter of thickness.

MIXING RATIO

The mixing ratio by weight is:

Comp. A : B : C = 5 : 1,5 : 13 kg

FEATURES AND BENEFITS

- Odourless;
- Shrinkage-free repairs;
- High chemical and mechanical properties;
- Excellent adhesion to traditional building materials;
- High resistance to heavy traffic; Reduced initial hardening times;
- Minimal interference with normal factory operations;
- Excellent workability;
- Excellent resistance to puncture;
- High-level repairs with even sloped joints.

Chemical resistance:

- Excellent resistance to water, diluted bases, oils and hydrocarbons;
- Good resistance to diluted acids and solvents.

CERTIFICATIONS

EPOX MALTA AL RAPID complies with UNI EN 13813: materials for screeds (DoP no. 462).

ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS).

APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Surfaces must be clean and free from dust, oil, grease, loose particles, paint residues and anything else that could affect adhesion. Any metal supports present in the affected areas must be free of rust, rolling scale and other impurities. To this end, we recommend vigorous brushing and the use of a special primer.



PRODUCT PREPARATION

Pour component B (catalyst) into component A (resin) and mix with a low-speed drill to prevent air pockets from forming. Gradually add component C (aggregate) while stirring until the product is smooth and lump-free. EPOX MALTA AL RAPID must be applied at a temperature between +5°C and +23°C

METHOD OF APPLICATION

EPOX MALTA AL RAPID can be used both as a primer and as a reconstruction mortar.

1. Primer (A+B)

Apply evenly with a medium-nap roller
EPOX MALTA AL RAPID mixed using only components A + B.

2. Reconstruction mortar (A+B+C)

- Thoroughly mix the three components in the quantities supplied in the packages and pour onto the surface to be restored;
- Before the primer hardens, apply the reconstruction mortar, in the required thickness, consisting of EPOX MALTA AL RAPID (A + B + C);
- Allow the material to self-level.

Apply the product at temperatures between +5°C and +30°C.

CURING

For drying (at 20°C) and curing times, refer to the table below.

Pot life of mixture (A+B)	10 minutes
Pot life of mortar (A+B+C)	15 minutes
Setting time	60 minutes
Dust-free	2 hours
Walkable	4 hours
Initial hardening time of mortar (A+B+C)	8-15 hours
Full hardening time	7 days
Hardening for forklift traffic	8-12 hours for joist joints 12-24 hours for open areas

CLEANING OF TOOLS

The equipment used for the preparation and application of EPOX MALTA AL RAPID must be cleaned immediately after use with DILUEPOX. After the product has hardened, removal can only be done mechanically.

WARNINGS

- Do not use if the container is damaged;
- Do not apply on wet substrates;
- Do not apply if the adhesion primer has hardened.

HEALTH AND SAFETY

For information on safety regulations, hazard statements and precautionary advice, rely on the latest MSDS by making a request to:

ufficiotecnico@apsebg.it

STORAGE

Shelf life of 12 months when stored in original packaging in a cool, moisture-free place.
Store at temperatures between +5°C and +35°C.
Protect against frost.
Opened containers must be immediately sealed tightly.

DISPOSAL

Dispose of contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTIC	STANDARD	RESULT		
		COMP. A	COMP. B	COMP. C
Appearance	-	Fluid	Fluid	Powder
Color	-	Transparent	Transparent	Grey
Dry residue		100%	100%	100%
Specific gravity	EN ISO 2811-1	1.12 g/cm ³	0.99 g/cm ³	1.80 g/cm ³
Viscosity	EN 8490	800 cps	250 cps	-

PHYSICAL CHARACTERISTICS OF THE MIXTURE (at +20°C)

CHARACTERISTIC	STANDARD	RESULT
Color	-	Grey
Mixture consistency	-	Dense
Specific weight	EN ISO 2811-1	1.75 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO STANDARD EN 13813

CHARACTERISTIC	STANDARD	RESULT
BCA Abrasion Resistance	EN 13892-4	10 µm
Adhesion Strength (with primer)	EN 13892-8	3.1 N/mm ²
Impact Resistance	EN ISO 6272	20 N.m
Compressive Strength (at 28 days)	EN 13892-2	≥ 82 N/mm ²
Flexural Strength (at 28 days)	EN 13892-2	≥ 54 N/mm ²

PRODUCT PERFORMANCE IN SERVICE

CHARACTERISTIC	STANDARD	RESULT
Tensile Strength	ASTM D 638	30 N/mm ²
Taber Abrasion Resistance (1,000 cycles / 1,000 g, CS-17 wheel) expressed as weight loss:	EN ISO 5470-1	80mg
Surface Hardness (shore D)	EN ISO 868	80

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