

HARDOX 360

Self-levelling solvent-free epoxy coating for industrial floors.

Description

HARDOX 360 is a self-leveling solvent-free epoxy coating for industrial floors. For use in 2-3 mm system by adding 1:1 quartz sand. Ideal for highly demanding installation requirements in mechanical strength and abrasion resistance. It is resistant to organic and inorganic acids, alkalis, petroleum products, wastes, water, sea water and a large number of solvents. It is resistant to temperatures from -30 °C to +50 °C.

Examples of applications

As a self-leveling coating - resin mortar on concrete or cement mortar substrates. In this case, its use is ideal for medical areas, in areas of health interest, in industries, in chemical laboratories, in parking areas, in areas with requirements according to the Cleanroom Standards etc.

Technical Specifications

Chemical Base: Two-component epoxy resin

Color: RAL 7032, RAL 7035, RAL 7040, RAL 1013, RAL 1015

Density: 1,65 Kg/L

Pot life: 40 min at +20°C

Foot traffic:

In 29 hours at +10°C

In 20 hours at +20°C

Layer application:

In 28 hours at +10°C

In 20 hours at +20°C

Final strength: in 7 days at +23°C

Service temperature:

+50 °C Permanent

+80 °C 8 days

+100 °C 14 hours

Adhesive strength: >3 N/mm² (concrete breaking point)

Wearing resistance to rolling wheel: RWA 20

Impact resistance: IR5

Hardness SHORE D: 20

Water absorption: < 0,2% w/w after 24 h

Substrate preparation

Ensure stable surfaces with maximum moisture content of <4%. The surfaces should show no trends of shrinkage. Remove loose, detached parts, dirt and grease. The mortars and concrete surfaces where HARDOX 360 is to be applied must be older than 28 days and not subject to negative hydrostatic pressure. Regarding quality, the concrete substrate must have minimum tensile strength of 1,5 N/mm² and minimum compressive strength of 25 N/mm². Depending on the nature of the substrate, it should be prepared by brushing, grinding, milling, sand blasting, water blasting, shot blasting etc. Following this, the surface should be well cleaned from dust with a high suction vacuum cleaner. If repairs are necessary please use suitable BAUER repair products i.e. SUPERFIX 30, SUPERFIX 50, HARDOX 11, BETOFIX B70 etc. Prior to the application of HARDOX 360 it is necessary to prime the substrate with HARDOX 11 or HARDOX 01S.

HARDOX 360 should be applied within 24 hours from priming the substrate. In case HARDOX 360 will be applied after the first 24 hours, quartz sand (0.4-0.8 mm particle size) should be spread on the surface, while the primer is still fresh, in order to ensure good bonding. After the primer has hardened, any loose grains should be removed with a high suction vacuum cleaner.

Mixture preparation

The two components are presented in containers ready for mixing. Mix well all the quantity of component B into A using electric mixer at slow speed until the mixture is homogeneous. (About 5 minutes).

In cases of applications with quartz sand, this is done after the components A and B are thoroughly mixed and require additional mixing for about 2 minutes until you have a homogeneous mixture.

Instructions for use

At first, the epoxy mortar is applied in the same way as in the smooth surface case. While the layer is still fresh, quartz sand is broadcast (0.1-0.4 mm).

The epoxy mortar is poured on the floor and spread (dragged) in a thickness of 2-3 mm, using a notched trowel. The self-leveling layer should be rolled with a special spiked roller, to help entrapped air to escape, and thus avoid bubbles.

The workability of epoxy materials is affected by temperature. The ideal temperature of application is between +15°C and +25°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will expand the curing time, while temperatures above +30°C will reduce it. It is recommended to mildly preheat the product in the winter, and store the product in a cool room before application in the summer.

Product specifications

The product complies with the requirements of EN 13813 SR-B 2,0-RWA 20-IR 5

Consumption

As self levelling mortar 0,8 kg/m² / mm of layer thickness

Packaging

Cans of 20 kg (A + B)

Storage

Preferably in sheltered areas, low in moisture, protected against ice and exposure to sunlight, for at least 12 months from the date of production and in the original sealed package.

Volatile Organic Compounds (VOCs)

The ready-to-use product HARDOX 360 contains a maximum < 100 gr/l , which according to Directive 2004/42/CE (Annex II, table A), classifies the product harmless after full curing.

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

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