

EPOLEX[®] FOR FLOOR S2380

Two-component epoxy paint for mineral surfaces

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Composition

Dispersion of pigments and fillers in a solution of epoxy resin of low molecular weight with addition of additives.

Characteristics and use

The paint is determined to protect very demanding exposed mineral floors. It is suitable to use it as a spatula. The final coat is resistant to influence of many chemical substances, humidity and mechanical wearing. The coat is not resistant to environmental effects, due to weather the premature flaking of surface can occur.

The paint is mixed with the hardener properly in specified ratio before use and mix thoroughly. The final properties of coat are achieved after complete maturing ca. 7 days, but walkable and recoatable after 24 hours, touch dry after 6 hours. If the coat is not fully hardened, it must not be treated mechanically or chemically. It meets the slip resistance requirements.

It is not suitable for coating of glazed or monolithic concrete surfaces.

The product is not intended for coatings that come into direct contact with food, feed and drinking water and for coatings of children's furniture and toys.

- ◆ high chemical and mechanical resistance
- ◆ possibility to apply it in any coat
- ◆ free of organic solvents
- ◆ meets the slip requirements (dry surface)

Application area

Substrate: mineral surfaces
 Environment: interior
 Examples: floors of stores, factories, cellars, garages, patios, washable surface of walls.

Shades

RAL 7032 pebble grey

Physical properties

Flow time	very viscous liquid
Weight solids	≥ 94 % (not hardened mixture)
Weight solids	≥ 96 % (hardened mixture)
Volume solids	≥ 96 % (hardened mixture)
Flash point	120 °C
Density	1400 - 1500 kg/m ³ (not hardened product)
Density	1300 - 1400 kg/m ³ (hardened mixture)

Emission limits

VOC: 0.04 kg/kg of hardened mixture	TOC: 0.02 kg/kg of hardened mixture
Product subcategory: A/j	Threshold value (2010): 500 g/l
Max. VOC content in ready to use state: 20 g/l	

Properties of hardened coat

Hiding power	degree 1-2
Gloss / 60°	at least 90
Pendulum hardness / Persoz	up 35 % in 5 days
Water-vapour transmission properties	class II 5m ≤ sD ≤ 50 m (EN ISO 7783)
Liquid water permeability	w3 – low (≤ 0,1 kg/ (m ² .h ^{0,5}) (EN 1062-3)
Surface finish adhesion of building structures to the base	≥4,0 MPa (EN 1542)
Slip/skid resistance of a surface	complies with requirements

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Chemical resistance of cured coat

Medium	Resistance to liquids / EN ISO 2812-1/
30 % NaOH	resistant
36 % HCl	resistant / short term exposure /
38 % H ₂ SO ₄	resistant / short term exposure /
30 % H ₂ O ₂	resistant / short term exposure /
Diesel	resistant
Gasoline 98	resistant / short term exposure /
Gasoline 95	resistant / short term exposure /
Hydraulic oil	resistant
Engine oil	resistant
Gear oil	resistant
Cooling liquid	resistant
Acetone	resistant
Xylene	resistant

Drying time

Surface temperature	23 °C	23 °C
Dust free	6 h	6 h
Dry through	12 h	12 h
Dry film thickness DFT	200 µm	1 mm

Spreading capacity

Wet film thickness WFT	200 µm	1 mm	3 mm
Dry film thickness DFT	200 µm	1 mm	3 mm
Theoretical spreading capacity	0.29 kg /m ²	1.46 kg /m ²	4.35 kg /m ²

Thinning

BALTECH S6300 (only for penetration and cleaning tools)

Hardening

Hardener: EPOLEX S7380

Mixing ratio:

100 weight parts EPOLEX S2380 : **25** weight parts EPOLEX S7380

100 volume parts EPOLEX S2380 : **35** volume parts EPOLEX S7380

The pot life of the hardened mixture is 40 minutes / 20 °C. The pot life of the mixture for penetration is 60 minutes / 20 °C.

Surface preparation

Mineral surface must be matured (at least 28 days), compact, free of dust, grease, remains of petroleum products and asphalt and other impurities. The surface must be insulated against moisture. It is ideal to suck a dust with powerful vacuum cleaner. When a water jet cleaning is necessary, it is recommended to leave the substrate to dry thoroughly. In the case of the substrate with larger roughness, it is recommended refinished. Humidity of substrate shouldn't exceed 5%.

Application conditions

Stir the paint properly with a mechanical stirrer before use so that there will be no sediment on the bottom and harden. Dilute for the penetrating primer.

Recommended air temperature for application is 15 to 25 °C, relative humidity must not be higher than 75 %. Temperature and relative humidity must be measured in proximity of painted surface. Lower temperature and higher humidity during application and drying markedly slow down drying and maturing of the coat. Lower temperature (both the air and the substrate) and higher relative humidity can also cause the effect commonly refer to as "Amine blush" - creation of white spots (exudates) after prolonged exposure of water on the cured coating film.

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Workflow

Penetration:

Stir thoroughly EPOLEX S2380 throughout the whole volume, add the hardener EPOLEX S7380 in prescribed ratio, stir the hardened mixture thoroughly again and dilute it with thinner S 6300 in a weight ratio of 2 parts hardened mixture and 1 part of thinner. The pot life of the mixture is 60 minutes / 20 °C.

Topcoat:

Stir thoroughly EPOLEX S2380 throughout the whole volume, add the hardener EPOLEX S7380 and stir thoroughly again throughout. Stir for at least 2 minutes, at low speeds, to avoid unnecessary incorporation of air into the mixture. The pot life of the mixture is 40 minutes / 20 °C. The pot life gets shorter under conditions of higher temperature and higher volume of hardened mixture.

The mineral substrate must first be treated with penetrating primer. Where the absorbency of the substrate is extremely high, it is necessary to repeat the penetrating primer to reach smooth nonporous surface. Repeated penetration can be carried out after about 2 hours (method "wet" in the "wet").

The top coat is applied to the primed surface at least 24 and no later than 72 hours after application of the primer, usually in one or two layers (depending on way of application) at temperatures from 10 to 25 °C. Usually the paint is poured onto the primed surface, spread with a spatula (preferably serrated) or is spread by roller with short hair (it is suitable to use the deaerator too).

To correct a surface with larger roughness and cracks it is possible to make a mixture by mixing the hardened mixture of paint and dry bulk filler (limestone, quartz sand, etc.) in a volume ratio of about 1:1 and applied to the dried primer coating.

When higher thickness is applied, we recommend adding up to 60% quartz sand to the paint with a particle size of 0.2 - 0.8 mm before hardening.

For larger compact areas always use the material from the same batch. Using the same batch can guarantee the same shade of the colour. We recommend mixing the content of the individual cans by homogeneous mixing.

Application

Roller (velour), spatula

Handling

Read the instructions in the Safety Data Sheet before use and follow all safety instructions and regulations. Follow basic hygiene rules. Do not eat, drink or smoke while using this product. Avoid contact with eyes, skin or clothing. Wear protective gloves, eye protection, protective clothing. Ensure effective ventilation of the workplace. People and animals should not remain in the treated area until the paint dries.

If on skin: take off contaminated clothing and wash skin with plenty of soap and water. If inhaled: remove person to fresh air. If in eyes: rinse thoroughly for 10-15 minutes with clean water. Remove immediately contact lenses if present. If swallowed: rinse your mouth with water. If you feel unwell or in case of health problems or if in doubt, and accidental ingestion and contact with eyes, always consult a doctor immediately.

Packing

4 kg

Storability

The product keeps the product qualities 24 months from production date in original closed container. To store in dry storage at the temperature 5 to 25 °C. Non-flammable liquid.

Disposal of packing and waste

Hand over the used, properly empty packing at the collection point of the packing waste. Dispose the packing with the product rest at the place determined by the town for disposal of hazardous waste or hand over to the person authorized for hazardous waste disposal. Further see MSDS.

These data are only for information and their accuracy is influenced by the properties of individual materials and unpredictable factors during application. The user is responsible for correct use of the product according to the direction for use and for correct application of painting system, i.e. he must always evaluate all conditions of application, which could influence final quality of the top treatment. Therefore, we always recommend to the user to carry out the test for actual working conditions and type of surface applied. Above mentioned data are data, which influence individual working conditions and therefore they do not establish a legal claim. It is necessary to consult information outside the terms of this catalogue sheet with the producer.

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