

EPA 1

Epoxy penetration



Two-component, water-soluble epoxy penetration

APPLICATION:

This product is intended for the penetration of concrete bases, including wet uncured concrete, and fresh concrete at least 24 hours old. This product is used for the soaking of concrete and other absorbent bases, as a penetration coating under the EPA 5G and EPA 5M water-soluble epoxy coatings.

It is also suitable for the soaking and penetration of other absorbent bases, especially building materials, plasters, wood, wood-fibre boards, etc.

Characteristic features:

- excellent adhesion to concrete surfaces
- thanks to its low viscosity, it penetrates deep into the base
- rapid drying
- reinforcement of old concrete surfaces
- significant improvement of chemical resistance of concrete
- vapour-permeable, it can also be applied on bases with high moisture content
- it does not contain volatile organic compounds (VOC)

COMPOSITION:

Component A – water-soluble reactive amine hardening agent. Component B – low-molecular epoxy resin. Thinner (component C) – distilled water.

TECHNICAL PARAMETERS:

Consistency	liquid
Thickening ratio in parts by weight	125 : 100 (component A : component B)
Thinner – component C	distilled water
Dilution ratio in in parts by weight	100 : 45 (thickened EPA 1 : component C)
Spreading rate (depending on the suction capacity of base)	7-10 m ² /1 kg of thickened and diluted mixture
Pot life	60-70 minutes
Method of application	using the roller or brush
Optimum temperature of components before processing	(20±5)°C
Drying time	min. 6 hours
Required coatings	1
Cleaning agent	water
Approximate coverage (depending on water absorption of base)	approx. 100-160 g/m ²

BASE PREPARATION:

The base must be free of dust, grease, and other impurities. Remove the dust using a powerful industrial vacuum cleaner, or by sweeping. The corroded concrete surface, or surface contaminated with oil, petrol, or asphalt, is recommended to regrind, sand blast or use steel balls or pressurised water (special oil stain removers may also be used).

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Mixing procedure:

To prepare a thickened mixture, use the plastic packaging of component **A**. Add the whole content of component **B** to component **A**, and mix thoroughly for several minutes to produce a homogeneous, viscous yellow-green liquid.

Before application, the thickened mixture should be diluted with distilled water (component **C**). To dilute the prepared thickened mixture (components **A** + **B**), use all the amount of distilled water. Add the distilled water in parts, and mix it thoroughly into the thickened mixture. **When preparing the usable mixture, use the entire content of components.**

PROCESSING:

Using a roller or brush, apply the thickened and diluted penetration as one layer on the prepared base. Spread the penetration thoroughly so that the soaked surface is not glossy after drying. The thickened and diluted mixture can be applied at temperatures of not less than 5°C, and higher. Epoxy coatings can be applied 6 hours after penetration.

Cleaning of used tools and instruments:

Clean tools, instruments, and containers with the residues of penetration with plenty of water before the penetration dries.

CAUTION:

- When working, handling and storing this product, the safety instructions specified on the packaging, or in the Safety Data Sheet, should be followed!
- Unused residues of penetration **EPA 1** can be disposed of after hardening as construction wastes.
- Unused residues of component **A** and component **B** (including contaminated containers) should be disposed of as hazardous wastes (see the Safety Data Sheet).
- Only completely emptied and clean packaging may be handed over to recycling.

FIRST AID:

In the event of health problems, or if in doubts, if swallowed accidentally, and after eye contact, always seek medical advice immediately and provide your doctor with the information from this Safety Data Sheet. If inhaled, remove the victim to fresh air, ensure rest, and prevent overheating. In contact with skin, remove immediately contaminated clothing. Wash the contaminated skin with plenty of water. Do not use thinners or solvents. In case of contact with eyes, rinse eyes under running water for at least 15 minutes and seek medical advice. If swallowed, rinse mouth with water and let drink about 1/2 litre of clean water. Do not induce vomiting. Seek medical advice.

SAFETY AND HYGIENE REGULATIONS:

Component **A**: Warning symbol: **Xn harmful**

- R 22 Harmful if swallowed.
- R 41 Risk of serious damage to eyes.
- S 2 Keep out of the reach of children.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36/37/39 Wear suitable protective clothing gloves, and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 46 If swallowed, seek medical advice immediately and show this container or label.
- S 51 Use only in well-ventilated areas.

Component **B**: Warning symbol: **Xi irritant, N dangerous for the environment**

- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitization by skin contact.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S 2 Keep out of the reach of children.
- S 28 After contact with skin, wash immediately with plenty of warm water.
- S 37/39 Wear suitable gloves and eye/face protection.
- S 46 If swallowed, seek medical advice immediately and show this container or label.
- S 61 Avoid release to the environment. Refer to special instructions or Safety Data Sheets.

STORAGE:

The product should be stored in a dry place at a temperature between 15 and 30°C. Do not freeze component **A**! If the storage conditions are met, the shelf life will be 12 months. The expiration date is specified on the packaging.

SHIPPING:

5 kg set includes: component **A** - 1.92 kg in plastic bucket, component **B** - 1.53 kg in metallic packaging, and component **C** (distilled water) - 1.55 kg in plastic packaging.

QUALITY:

- The product quality is regularly checked in the manufacturer's laboratories.
- The manufacturer and distributor apply a certified quality management system, according to ISO 9001.

DISTRIBUTOR:

LASSELSBERGER, s.r.o., Adelova 2549/1, 320 00 Pilsen – Jižní Předměstí

VALIDITY:

Since 1 August 2013

We reserve the right to make any changes that are the result of technical progress. This issue cancels and supersedes all previous issues.

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