

EUROPOX Z SPEED

DESCRIPTION:

Europox Z Speed is a solvent free two part fast curing epoxy primer. Europox Z Speed has great adhesive qualities for normal to strong absorbent porous substrates and is the recommended primer for porous cementitious substrates such as normal concrete and cement screeds. Depending on the conditions a following layer can be applied already between 1,5 and 4 hours. Ideal is Primer and scratchcoat can be applied in one day.

CONSUMPTION:

Product	Consumption
Europox Z Speed	0,2 - 0,4 kg/m ²

SUBSTRATE PREPARATION:

The substrate must be clean and dry and free of dirt, oil, grease and any other impurities or contaminants.

The substrate must be sound and sufficiently compression resistant (at least 25 N/mm²), with a minimum adhesive strength of 1.5 N/mm².

Weak concrete and loose cementitious levelling must be removed, and surface damage such as blowholes and voids must be repaired with a mixture between Sylothix and Europox Z.

DO NOT USE POLYESTER PUTTY as no adhesion will be obtained.

The concrete or screed substrate must be primed.

Uneven substrates must be levelled in order to achieve an even substrate.

Before applying the product, all dust and loose parts must be fully removed, preferably using a brush and/or industrial vacuum cleaner.

Concrete substrates must be mechanically prepared using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

APPLICATION CONDITIONS:

Substrate temperature: Minimum -5°C, maximum +35 °C

Ambient temperature: Minimum -5°C, maximum +35 °C

Relative air humidity: Maximum 80% R.H.

Moisture content substrate: < 4% moisture
(Test using a carbide measurement).

Dew point: Beware of condensation!

The temperature of the substrate and non-hardened material must be at least 3°C higher than the dew point to reduce the risk of condensation, efflorescence or stickiness (carbamate formation) on the floor finish.

PROPERTIES:

Approx. 100% solid, solvent-free

Low viscosity

High adhesive strength

Easily processable

Very good pore filling capacity

TECHNICAL PARAMETERS:

Viscosity¹ [mPa·s] 600-1000

Density² [g/cm³] ~1,0

Shore Hardness³ > D80

Electrical conductivity >100 GΩ

Mixing ratio 100 A - 40 B

Adhesive strength⁴ > 1,5

[N/mm²] (concrete failure)

1 Brookfield, LV3, 30 RPM, 23°C

2 ISO 2811-1, + 23°C/50% R.H

3 DIN 53505, 14 days / +23°C / 50% R.H

4 EN 4624, 14 days / + 23 °C / 50% R.H

PACKAGING:

Component A+B: 10, 20, 30 kg

Component A: 7,14 kg, 14,28 kg, 21,42 kg

Component B: 2,86 kg, 5,72 kg, 8,58 kg

Application at different stages and combining different batch numbers in one project could result in a slight colour difference, to avoid this:

Order all materials for your project at the same time.

Discoloration and color deviation can occur, this will not affect the functionality or performance.

FORM:

Component A: Liquid, transparent, clear to slightly yellow

Component B: Liquid, transparent, clear to slightly yellow/brownish

SHELF LIFE:

Up to 12 months after the production date in the original, sealed, unopened and undamaged packaging, stored dry between +5 °C and 30°C.

Discoloration and color deviation can occur, this will not affect the functionality or performance.

MIXING:

Mixing ratio: Component A: Component B = 100 : 40

Add part B to part A and mix continuously for two minutes until a uniform mixture has been achieved.

To ensure thorough mixing pour the materials into a clean second container and mix again for one minute to achieve an even consistency.

Mixing is preferably done with a power mixer on low speed, 300 to 400 RPM, with a WK90 mixer paddle.

REMARKS:

- Please check if you have the right A + B component
- Mixing is very important. Please mix at least 2 minutes otherwise no chemical reaction will take place.
- When applying the material please wear protective clothing and gloves.

The most important thing about priming is the filling of all the (micro) pores to avoid air bubbles and pinholes in the wearing course. Do not apply too much primer, if you apply the primer to heavy you can trap air inside that the next day will result in a primed floor with air bubbles and holes. Uneven or dirt covered substrates should not be treated with thin coatings. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.

Protection from rain and water is necessary during processing and hardening.

Wrong assessment and treatment of cracks can result in a reduction of lifespan and recurring cracking.

Mixed materials must be processed immediately as flow and defoaming will be reduced when pot life date expires.

If heating is required do not use gas, oil paraffin or other fossil fuel burners. These produce large quantities of CO₂ and water vapor, which can adversely affect the finish. For heating, only use electrically powered hot air ventilation systems.

LEGAL NOTICE:

This information, and in particular the recommendations related to the application and end use of Eurostep products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Eurostep's recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The user of the products must test the product's suitability for the intended application and purpose. Eurostep reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

CURING TIME:

Pot-life at 20°C	5 min
Touch-dry at 20°C	1,5 hours
Foot traffic at 20°C	4 hours

Check the moisture content of the substrate, the R.H. and dew point before applying the product.

Apply the material evenly on the substrate, using a trowel or squeegee. Be Aware of the very short potlife.

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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