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EBOLIT 511

TECHNICAL DATA SHEET

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Product characteristics

Solution of low molecular weight epoxy resin in organic diluent.

Applications

EBOLIT 511 is intended for penetration and impregnation of porous materials (such as concrete, wood, paper etc.).

Penetration mixture is prepared by thorough mix of **EBOLIT 511** and a HARDENER.

EBOLIT 511 should be applied solely to a clean surface void of lipid and mechanical impurities.

Depending on quality of the surface, the coating is applied in one or multiple layers. When penetrating a concrete surface (which must comply with ČSN 74 4505) to apply cast flooring or polymer concrete, varnish coat must not be created. Penetration is applied until the concrete base reaches its unabsorbability.

Product Features

Colourless to light yellow coloured low-viscous liquid with a characteristic smell that is non-miscible with water. The agent can be diluted by acetone, toluene or butyl acetate.

Organic solvent content

characteristic	unit	value
product's density	g.cm ⁻³	0.980
Content of organic solvents (expressed in mass fraction)	kg/kg of the product	0.50
Total organic carbon content	kg/kg of the product	0.310
Content of nonvolatile substances (expressed in volume percent)	volume percent	36.7

EBOLIT 511 must comply with the following quality characteristics:

Quality characteristic	Value	Methodology of assessment
Content of nonvolatile substances (%)	50 ± 3.0	PN-ZM 525/2009
Epoxy equivalent in dry matter (g.mol ⁻¹)	maximally 188.5	ČSN EN ISO 3001
Epoxy index in dry matter (mol/1000 g)	minimally 5.3	ČSN EN ISO 3001

For application purposes, EBOLIT 511 is hardened by the following hardeners (indicated for 100 units of mass of **EBOLIT 511**):

HARDENER P11	6.3 units of mass
HARDENER T 410	11.5 units of mass
HARDENER P22	11.5 units of mass
HARDENER MK	16.5 units of mass

Surface preparation

A surface on which penetration coating is applied must be void of all mechanical impurities, oil and grease stains

as well as other impurities that could negatively affect agent's adhesive properties. The surface can be sandblasted, sanded, milled or abraded.

Directions for Use

EBOLIT 511 in a form of a penetration varnish is obtained by thorough mixing both components (**EBOLIT 511** and a HARDENER). Lifespan of a resin hardener composition is approximately 24 hours. The penetration coating can be applied by one of common coating methods - brushing (using a brush or tar brush), spraying, dipping etc.

Minimal temperature for applying the penetration coating is 15 °C. At lower temperatures, hardening time extends. It takes up to 24 hours under standard conditions at 20 °C.

When applying the agent, we care that the underlying material is saturated and, at the same time, that dry varnish coat is not formed on its surface. Usually, a single layer of this coating is sufficient. Tools used during application of the product should be washed and cleaned by organic diluent (e.g. acetone, toluene, butyl acetate) immediately after the work is finished.

EBOLIT 511 Usage

Usage of an **EBOLIT 511** composition for concrete ranges from 300 to 800 g.m⁻² for a single coating.

Packaging & Storage

EBOLIT 511 is delivered in 200 l metallic barrels. Alternatively, it can be delivered in different containers that were discussed and agreed on in advance.

Store it in a sealed container in places protected from direct climatic influences. Recommended storage temperature is between +5 to +30 °C. Must not be stored in the sun or near heat sources. Storing at temperatures below 0 °C does not affect product's application properties.

Transport

EBOLIT 511 is transported in compliance with ADR/RID Regulations.

Warranty

Provided the product is transported and stored in accordance with the above written conditions, its warranty is 6 months from the production date.

Note

Data about the product characteristics and its processing were obtained by laboratory measurements and application tests. This technical data sheet can provide solely legal advice without any engagements. Use of the product should be always adjusted to specific conditions.