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| EBOLIT E 30 | |
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| TECHNICAL DATA SHEET TL 591/2010 | |
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Product characteristics

EBOLIT E 30 is a laying and joint epoxy putty suitable for preparation of chemically resistant linings and floors that are exposed mainly to alkali activity.

Applications

Mixing EBOLIT E 30 with the Hardener P 11 yields thixotropic adhesive and joint putty.

Product Features

Grey coloured thixotropic paste. When stored for a longer period of time, partial sedimentation of fillings (sand) of the product takes place. It can be easily re-homogenized by e.g. an electric mixer with regulated rotation speed once the product is heated to temperature between 30 to 60 °C.

EBOLIT E 30 must comply with the following quality characteristics:

| Quality characteristic | Value | Methodology of assessment |
|---|--------------|---------------------------|
| Epoxy equivalent (g.mol ⁻¹) | 667 to 740 | ČSN EN ISO 3001 |
| Epoxy index (mol/1000 g) | 1.35 to 1.50 | ČSN EN ISO 3001 |
| Putty hardening at 20 °C (hours) | 3 to 24 | |

Properties of a putty hardened with the HARDENER P 11 - hardened at 25 °C for 14 days

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|----------------------------------|----------------|
| Compressive strength limit (MPa) | minimally 60.0 |
| Bond strength to concrete (MPa) | minimally 1.5 |

Directions for Use

For application purposes, EBOLIT E 30 is hardened by the following hardeners (indicated for 100 units of mass of **EBOLITU E 30**):

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|--------------|-----------------------------------|
| HARDENER P11 | 3 units of mass (minimally 15 °C) |
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We recommend mixing only such quantity of the putty which can be processed in 30 minutes. It is convenient to mix the putty in polyethylene containers that are easily cleaned of its leftovers.

EBOLIT E 30 application conditions for chemical linings:

- a) Concrete or brick beddings with cement plaster selected for chemical lining must be completely dry and well isolated from water and exterior humidity. The latter is usually achieved by utilising high-quality asphalt isolation. It is important especially in presence of aggressive water. Beddings must be of sufficient static dimensions for their corresponding load.

- b) We recommend to provide the concrete or brick beddings with cement plaster selected for chemical lining with a chemically resistant membrane. This is usually achieved through use of asphalt isolation or a sheet made of PVC, natural rubber, oppanol or polyethylene. This step serves as precaution against damage or destruction of e.g. a concrete bedding caused by a corrosive medium (acids) in case of mechanical breaching of the performed chemical lining in joints bonded by the putty.
- c) Prior to bonding, joints of linings must be completely dry and void of dust and grease. During processes of bonding and putty hardening, the work must be protected against steam and water effects. Width of joints is usually chosen in range from 6 to 10 mm. Finished joints should be re-coated with a newly prepared putty after 24 hours (20 °C). Once the putty is hardened, this step will considerably improve both its waterproofness and its wear resistance in these joints.
- d) For the putty preparation, it is necessary to use clean and dry containers and tools. Soiling by cement, lime or other substances of alkaline character is utterly undesirable.
- e) Finished chemical linings must not be exposed to corrosive effects before the putties in their joints are completely hardened.

Application of EBOLIT E 30 putty as a chemically resistant coating:

Resin is mixed with a hardener in the same ratio as indicated in the table. If necessary, this prepared matter can be diluted with 5 to 20 % of acetone. Usage of the matter ranges from 0.4 to 0.8 kg/m² for a single coating. Coatings can be applied again after 24 hours. We recommend applying a penetration coating using EBOLIT 511 under the layer of **EBOLIT E 30**.

Chemical resistivity of the hardened putty EBOLIT E 30

The hardened putty **EBOLIT E 30** withstands mineral oils and non-polar solvents, concentrated sodium and potassium hydroxides and diluted mineral acids. It is not resistant to ketones and formic and acetic acids.

Packaging & Storage

EBOLIT E 30 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.

Transport

EBOLIT E 30 is transported by covered vehicles 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 date it was delivered from a warehouse.

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.