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EBOLIT 505 A/B

TECHNICAL DATA SHEET
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Product characteristics

EBOLIT 505 A/B is a two-component epoxy thixotropic adhesive without volatile solvents. The product is manufactured in two variations that differ in a component B - Normal (EBOLIT 505/BN) and Rapid (EBOLIT 505/BR). Before use, components A and B are mixed together.

Applications

EBOLIT 505 A/B is used as a construction adhesive, glue mortar and a putty for concrete, stone, mortar, plaster, ceramic, glass, asbestos concrete, steel, aluminium, polyesters and epoxies.
It is suitable for structural bonding of thin gaps, gluing and bonding concrete elements - e.g. bridge elements, pillars, brackets, kerbs - patching vertical and overhead areas or gluing coupling-irons, clamps, brackets and cramps to concrete, plaster and other construction materials.

Product Features

Highly thixotropic material. Once the components A and B are mixed, the agent does not sag on a vertical area even when the layer of the coating is thick 15 mm.
Colour: white (component A)
dark grey (component B)
grey (mixture of A and B)

Working time at 20 °C: 15 to 20 minutes (Rapid); 40 minutes (Normal)
Hardening in a thin film (2 mm) at 20 °C: in 3 hours (Rapid)

After 10 days, a hardened composition has the following strength properties:

bending strength	> 30 N/mm^2
compressive strength	> 60 N/mm^2
tensile strength	> 15 N/mm^2
adhesion to concrete	c. 4.5 N/mm^2
adhesion to steel	c. 15 N/mm^2

Chemical Resistance (14 days since the composition was hardened):
The hardened product is resistant to water, solutions of alkali hydroxides, mineral oils and petrol. It is not resistant to strong acids, concentrated organic acids and ethanol.

EBOLIT 505 A/B must comply with the following quality characteristics:

Quality characteristic	Value	Methodology of assessment
Gelling time (minutes) Rapid (at 20°C)	maximally 35	ČSN EN ISO 3673-2
Gelling time (minutes) Normal (at 20°C)	55 to 70	ČSN EN ISO 3673-2
Hardening in a thin film (for Rapid at 20°C) (h)	maximally 3	
Sagging of the mixture on vertical surfaces (for 15 mm thick coating)	does not sag	

Directions for Use

For application purposes, EBOLIT 505/A (component A) is mixed with the component B - indicated for 100 units of mass of **EBOLITU 505/A**

EBOLIT 505/BR (component B Rapid)	25 units of mass
EBOLIT 505/BN (component B Normal)	25 units of mass

Working time at 20 °C (for 2 kg of the mixture): 15 to 20 minutes (Rapid); 40 minutes (Normal)
The lowest recommended temperature for application: +5 °C (Rapid; working time is 60 minutes)
+10 °C (Normal; working time is around 90 minutes)

Mixing and Application Process
The whole package of the component B should be added to the component A. The mixture should be mixed by an electric agitator at a low rotation speed (maximally 250 rpm) until there are no apparent colour stains present. As soon as the components are mixed, working time of the mixture starts to count down. Taking this into account, it is possible to divide the package into several doses and mix each dose separately.
Recommended application temperature ranges from +10 to +30 °C (for variation Normal) and from +10 to +20 °C (for variation Rapid).
The putty should be applied on prepared surfaces by spatulas, trowels or sawtooth floats. It is necessary to properly rub the mixture into the base so all its pores and crevices are filled. When gluing steel segments together, it is necessary to push them to the surface equally until the glue starts coming out of the joints. Hands need to be protected by protective work gloves.
Tools used for application and mixing should be immediately cleaned of the non-hardened glue by acetone, xylene or butyl acetate. Hardened material needs to be removed mechanically. Hands need to be washed properly with water
and soap and treated by a reparation cream.

Surface preparation
Concrete surface must be around 3 weeks old, sufficiently firm - minimal pull-off strength is 1.5 N/mm^2 - and void of lipoid impurities, dust and sand. Maximum value of humidity of the underlying material is 10 %.
Similarly, ceramic, glass and steel surfaces must also be void of all kinds of grease (oils, fats). Additionally in case of steel, the surface must be free of rust and scaling. Steel surfaces must not be dewy. The aforementioned cleaning of the surface is best done immediately before gluing.

Treated surfaces can be loaded after 7 days.

Packaging & Storage
EBOLIT 505 A/B is delivered in metallic or plastic containers that were discussed with a customer and agreed on in advance. Weight of a package containing the component B is 1/4 of weight of a package with the component A.
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 505 A/B 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.

Supplement - Further Notes

The manufacturer regards all the data and statements presented in this product's technical data sheet as correct and precise. These information are intended as guidance for approved techniques of civil engineering. The manufacturer does not provide
customers with any kind of guarantees - either direct or implied - with respect to this material and associated with performance, climatic factors, construction, used equipment or other variable conditions that are completely out of their influence, nor do they authorise any of their sales representative to do so. The manufacturer only guarantees that the material complies with the technical conditions. Any responsibility towards buyers or users of this product is solely limited to replacement of the product. The manufacturer shall in no event be liable for any injuries, damages or loss incurred directly, indirectly. incidentally or consequentially by use of the product, in connection with the product or with nature of work for which the product is used. The manufacturer shall in no case be liable for any defects, variations or changes of the base to which their products are applied.