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## EBOLIT 401/XXXX

### TECHNICAL DATA SHEET

**TL 452/2007**

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#### **Product characteristics**

**EBOLIT 401/XXXX** is low molecular weight epoxy resin containing reactive diluent and high-boiling-point solvents with fillers and pigments whose density is around 1450 kg/m<sup>3</sup>.

The product is manufactured in the following hues (expressed by RAL codes) - grey 7001, 7035 or others (according to customer's order).

#### **Applications**

**EBOLIT 401/XXXX** is used in combination with hardeners T 150, T 2605 or Ancamide 2573 as a coating composition with high dry matter content that is intended mainly for coating of concrete floors as well as other cohesive materials such as drywalls, particle boards etc. It is of good use especially in situations in which properties such as high abrasion resistance, good adhesion to an underlying material, wash ability and partial chemical resistance are required.

#### **Product Features**

Appearance: Moderately viscous liquid coloured in accordance with the chosen RAL colour.

**EBOLIT 401/XXXX** must comply with the following quality characteristics:

Quality characteristic	Value	Methodology of assessment
Consistency (measured by a 4 mm efflux cup) at 23 °C (s)	30 to 90	ČSN EN ISO 2431
Dry matter (after 2 hours at 140 °C) (%)	minimally 75	PN-ZM 452/2007
Colour (expressed by a RAL code)	According to customer's requests	PN-ZM 452/2007

#### **Directions for Use**

##### ***Mixing ratio***

Hardener (units of mass for 100 units of EBOLIT 401/XXXX)	T 150	T 2605	Ancamide 2573
Mixing ratio	100:87	100:20	100:25

**EBOLIT 401/XXXX** should be applied by brushes, tar brushes or velour rollers to dry mature concrete underlay (at least 28 days old) whose surface must not be densified. Additionally, cement grout must not protrude from the surface. The surface must be void of all mechanical impurities, grease and remnants of previous coatings.

Before its application, **EBOLIT 401/XXXX** should be properly mixed through its volume to disperse coarser portions of the filler that tend to go to the bottom when the product is stored for a longer period of time. Continuing to mix the product, add an appropriate amount of a hardener in accordance with the table. Workability of this activated mixture is around 2 hours at 20 °C. Temperature of the base should not drop below 15 °C. The base must be isolated or basemented. If this condition is not

satisfied, underlying moisture will rise up through the base and will generally lead to scaling of the coating.

Maximum value of humidity in the concrete base must not exceed 4 %. If the mixture was prepared by adding the hardener Ancamide 2573, higher value of humidity in the base can be accepted.

To achieve the best coating performance for highly stressed areas and porous bases, we recommend to penetrate the base by the following: EBOLIT 511 with the HARDENER P 11 mixed in ratio 10:6.5. Usage of the penetration coating ranges from 0.3 to 0.8 kg/m<sup>2</sup> depending on absorptivity of the base. When necessary, the penetration coating can be reapplied after 24 hours. Conceivable cracks or crevices in the base can be very well filled up with epoxy putty EBOLIT 505.

**EBOLIT 401/XXXX** is applied in a single layer or multiple layers at least 24 hours after completing the aforementioned surface preparations. Highly stressed areas (expeditionary platforms etc.) are recommended to be treated by three-layer coating. Between each consecutive coating, a technological break of 24 hours must be taken.

To improve skid-proof properties, a surface of a non-hardened final coating layer can be additionally powdered by e.g. fine dry siliceous sand. Once the layer hardens, any non-embedded spreading can be simply swept away.

**EBOLIT 401/XXXX** should be spread so that the thickness of its single layer is maximally 100-200 µm. Before **EBOLIT 401/XXXX** is applied, its consistency can be adjusted by adding a c. 10 % xylene-butanol mixture in the weight ratio 4:1. Usage of the coating composition for concrete bases is around 0.2 kg/m<sup>2</sup> for a single coating.

At 20 °C, hardened **EBOLIT 401/XXXX** attains its optimal properties 48 hours after application of the final coating layer. The coating is resistant to diluted acids and hydroxides and all common diluents. It is also able to resist ethyl acetate for a brief period of time. It is not resistant to phenol.

### **Packaging & Storage**

**EBOLIT 401/XXXX** is delivered in well-closed metallic or plastic containers with a removable lid that were discussed with a customer 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 401/XXXX** 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 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.