SOLVENT-FREE TWO COMPONENT EPOXY RESIN BASE COAT

DESCRIPTION

EP 28 is an unfilled epoxy resin. Suitable as base coat, scratch coat, and levelling screed for thick layers. EP 28 offers good wettability properties, is highly fillable, and has very good processing properties. EP 28 cures very well and evenly and offers good adhesion to mineral based substrates

RECOMMENDED FOR

EP 28 epoxy-resin flooring can be applied to all structurally sound concrete – new or old. Typical areas of application are:

- Base coat prior coatings
- Scratch coat for sealing and levelling
- Mortar for repair work, levelling and as bedding
- layer
- For installation and grouting work

ADVANTAGES

- "Total Solid" according to Giscode (test method of the Deutsche Bauchemie, German construction chemistry
- association)
- Solvent free
- Economical
- Low shrinkage
- All-purpose suitability
- Resistant to hydrolysis and saponification
- Free of deleterious substances against varnish

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Viscosit (Components A+B)	1.050 mPa s	EN ISO 3219 at 23 oC
Density (Components A+B)	1.09 kg/lt	EN ISO 2811-2 at 20oC)
Color Clean -	Yellowish	
Weight loss)	0.3 % after 28 days at 140 oF (60 Oc)	
Water absorption	< 0.2 %	DIN 53495
Bending tensile	>35 strengthN/mm2	DIN EN 196/1
Compressive strength	> 70 N/mm2	DIN EN 196/1
Shore-hardness	D 80	DIN 53505
Adhesive tensile strength	> 1.5 N/mm2 DIN	EN ISO 1542
Processing time at 50 oF (10 oC)	40 minutes	
Processing time at 68 oF (20 oC)	25 minutes	
Processing temperature	15 minutes	

www.penetron.ro

Processing time at 86 oF (30 oC)	50 oF (10 oC) minimum room and floor temperature	
Curing time at 50 oF (10 oC))	20-24 hrs (Accessibility)	
Curing time at 68 oF (20 oC)	6-10 hrs (Accessibility)	
Curing time at 86 oF (30 oC)	4-6 hrs (Accessibility)	
	2-3 days for mechanical load at (20 oC)	
Curing	7 days for chemical resistance at (20 oC)	

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values

DIRECTIONS FOR USE

Surface Preparation: The substrate to be coated has to be levelled, dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil, and paint residues must be removed using suitable methods. Surface suitable for coatings are concrete C20/25, cement screed CT-C35-F5, as well as other sufficiently solid substrates. The substrate has to have

adequate high strength for the proposed occupational use. Coating of mastic asphalt with epoxy resin is not recommended. The surface to be coated should be prepared mechanically, preferably by shot-blasting. The surface

strength must then be a minimum of 1.5 N/mm2. For concrete, moisture content must not exceed 4.5 CM- %, remaining

residual humidity. The possibility of moisture ingress from the ear must be permanently excluded. The possibility of

moisture in- gress from the rear must be permanently excluded. Please refer to the advice issued by the trade associations, e.g. the current edition of BEB-worksheets KH- 0/U and KH- 0/S. Reconstructing floors may need special

procedures. Obtain technical advice.

Mixing: Single packages of the components need to be measured in the precise mixing ratio. Combi-trading units will

be supplied in the correctly measured mixing ratio.Component A has sufficient volume for the entire trading unit.

Decant the hardener into the resin completely. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks. To avoid mixing errors it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again ("to repot").

Producing scratch coats and mortar:

Scratch coats: 1.0 kg EP 28 0.5 - 0.8 kg KLB-Mischsand 2/1 (alternatively QUARTZ SAND MIX 0.10 – 0.45 MM)

Epoxy resin mortar:

1.0 kg EP 28 8.0 - 12.0 kg KLB-Mischsand 1

Before adding additives, premix the binding agent. Then addthe additive. The amount of the sand blend to be added depends on the desired texture and consistency

PACKAGING

EP 28 is available in 7,5Kg + 2,5 kg și 22,5 + 7,5 kg. containers.

Mixing ratios:

A:B = 3:1 parts by weigh A:B = 100:39 parts by volume **APPLICATION**

FISA TEHNICA PRODUS

Base coat: Processing the material immediately after mixing, with a coating knife, trowel, or nylon roller. Apply an evenly closed coat on the substrate. Apply a second layer or a saturated scratch coatif the substrate is highly absorbent. Scatter the fresh surface with approx. 0.8 kg/m² quartz sand (grain size 0.3/0.8 mm) for a maximum adhesion. This is mandatory if the subsequent coatings will be applied later than 24 hours after base coat application.

Scratch coat: Apply a scratch coat before any further coatings to level the substrate as well as for sealing. Apply with a down spout, metal-, or rubber coating knife. Adjust the consistency to the substrate for a material that runs true.

Epoxy resin mortar: EP 28 is suitable as bedding layer and for repair work. The special resin EP 150 is recommended for visible industrial mortar coatings. Process immediately after mixing. Pull over a lath, compact and smooth with a trowel. Clean tools with small amounts of VR 24.Floor and air temperature must not fall below 50 °F (10 °C) and humidity must not exceed 75 %. The difference in floor and room temperature must be less than 37.4 °F (3 °C) so the curing will not be disturbed. If a dew- point situation occurs, adhesion maymalfunction, curing may be disturbed, and spotting may occur. Curing time applies to 68 °F (20 °C). Lower temperature may increase, higher temperature may decrease the curing and processing time.

COVERAGE

Base coat: Approx. 0.3 - 0.4 kg/m2 for each applications Scratch coat: Approx. 0.4 - 0.6 kg/m2Mortar: Approx. 0.150 - 0.300 kg/m2 for each mm of layer

SPECIAL CONSIDERATIONS

We advise against the "gumming" of screed joints/flat joints with pure or with thixotropic agent filled epoxy resin. In the course of time, these areas will begin to show on the surface. For the application, use always the KLB-Primer resin in combination with quartz sand e.g. KLB-Mischsand 2/1 (alternatively QUARTZ SAND MIX 0.10 – 0.45 MM) or KLB-Mischsand 1). For this, we recommend to add at least 1 - 3 parts by weight of filler. To remove fresh contamination and to clean tools, use thinners VR 24 or VR 33 immediately. Hardened material can only be removed mechanically.

The product is subject to the hazardous material-,operational safety-, and transport-regulations for hazardous goods. Refer to the DIN-Safety Data Sheet and the information on the labelled containers! GISCODE: (05/2018 modification) RE 30 indication of VOC-Content: (EG-Regulation 2004/42), Maximum Permissible Value 500 g/l (2010,II,j/lb): Ready-foruse product contains < 500 g/l VOC. Contact PENETRON ROMANIA for additional information regarding your project.

PACKAGING

EP 28 is available in 7.5+2.5 kg and 22.5+7.5 kg containers

STORAGE / SHELF LIFE

Store in dry and frost-free conditions. Ideal storage temperature is between 50 - 68 oF (10 - 20 oC). Bring to a suitable working temperature before application. Tightly reseal opened containers and use the content as soon as possible. When properly stored in a dry place in unopened and undamaged original packaging, shelf life is 12 months.

SAFE HANDLING INFORMATION

Avoid skin and eye contact. If contact is made, flush areas with lots of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Safety Data Sheet. PENETRON ROMANIA. KEEP OUT OF REACH OF CHILDREN.

FISA TEHNICA PRODUS

CERTIFICATION

EP 28 has been successfully tested in combination with EP 28 Kopfsiegel according to the regulations for protection and repair of concrete parts issued by German Committee for Structural Concrete, part 2, construction – planning and

execution, August 1990: chemically resistant coating for areas with exposure to traffic and high mechanical load.

WARRANTY – DISCLAIMER

BEST IMPORT PRODUCTS PENETRON warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to BEST IMPORT PRODUCTS PENETRON shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. BEST IMPORT PRODUCTS PENETRON makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, BEST IMPORT PRODUCTS PENETRON makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the BEST IMPORT PRODUCTS PENETRON experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, BEST IMPORT PRODUCTS PENETRON accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. BEST IMPORT PRODUCTS PENETRON may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

CE

KLB Kötzt Beschichtungen GmbH Günztalstraße 25 FRG-89335 Ichenhausen 13 EP28-V1-02201 DIN EN 13813:2003-01 Synthetic resin screed mortar DIN EN 13813: SR-B1.5- AR0.5-IR4 Fire behavior: EfI-s1 Emission of corrosive substances: SR Wear resistance BCA: AR 0.5 Adhesive tensile strength B 1.5 Impact resistance: IR 4

BEST IMPORT PRODUCTS PENETRON Departament Tehnic Tel: 0368 734 003 tehnic@penetron.ro Adresa : Complex Duplex 2 Str. Fundatura Harmanului, Brasov www.penetron.ro

www.penetron.ro