SEMI GLOSS COLOURED TWO COMPONENT EPOXY RESIN SEALER

DESCRIPTION

EP 740 E is a 2-component, water-emulsified, pigmented epoxy resin sealer. EP 740 E is especially suitable as sealer on concrete, cement screed, magnesia, and mastic asphalt, as well as for the reconstruction of older areas, due to its excellent adhesion on different, even older substrates. The product may be easily processed with a roller, offers high coverage, and due to its consistency the product is pleasant to work with and environmentally sound. The application in 2 layers results in a durable and optically appealing sealing coat. The product cures by drying and chemical cross-linking to a durable, robust film with good adhesion. EP 740 E results in a hard and tough, almost abrasion resistant film, physiologically harmless with good resistance to aqueous solutions, diluted acids and bases, as well as motor oil and fuel oil. The water vapor permeability allows the sealing of substrate sensitive to water as well as excessively damp substrate. EP 740 E results in semi-gloss surfaces. EP 740 E is certified according to the "Indoor Air Comfort Gold" and meets the requirements for a sustainable construction certification according to DGNB (Germany), LEED (United States) or BREEAM (Great Britain). "Indoor Comfort Gold" fulfills the highest requirements in regards to the emission of Volatile Organic Compounds and respects not only the German limits of AgBB or ABG, but also of the emissions regulations of many other European Countries. In combination with EP 727 E, the product is DIBt[®]-accredited for recreation rooms.

RECOMMENDED FOR

- ▶ EP 740 E is used as sealer on concrete, cement-, anhydrite-, and mastic asphalt screed and magnesia coatings.
- As sealer on water vapor permeable coatings like EP 785 HS.
- ▶ Sealing and thin coats for interior areas, like e.g. commercially and industrially used areas, basements, garages, storage rooms and so on.
- ▶ Re-working on older epoxy resin substrate.
- Vertical areas and walls.

Test Method

ADVANTAGES

- Environmental friendly
- Convenient application
- Low odor
- Low emission quality
- Water vapor permeability
- Excellent adhesion

Characteristic

- Consistent surface finish
- Excellent covering properties
- Results in appealing surfaces

TECHNICAL CHARACTERISTICS

Ondideteristic		Test Result	Test method
Viscosity	(Components A+B)	1,000 mPa s	EN ISO 3219 at 73.4 °F (23 °C)
Density	(Components A+B)	1.32 kg/lt	EN ISO 2811-2 at 68 °F (20 °C)
Color		See relevant color chart	
Solid content		>63%	KLB - Method
Flashpoint		Not flammable	DIN 51755
Diffusion resistance factor		3,100	DIN EN ISO 12572
Diffusion equi sd (0.5 mm)	v. air layer thickness	1.6 m	DIN EN ISO 7783-2







Test Result

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TECHNICAL CHARACTERISTICS

Characteristic	Test Result	Test Method
Abrasion (Taber Abraser)	< 70 mg	ASTM D4060
Brightness (85°)	20–30	DIN 67530
Processing time at 59 °F (15 °C)	80 minutes	
Processing time at 68 °F (20 °C)	70 minutes	
Processing time at 86 °F (30 °C)	40 minutes	
Processing temperature	59 °F (15 °C) minimum room and floor temperature	
Curing time at 59 °F (15 °C)	24-36 hrs (Accessibility)	
Curing time at 68 °F (20 °C)	18-24 hrs (Accessibility)	
Curing time at 86 °F (30 °C)	14-18 hrs (Accessibility)	
Curing	2-3 days for mechanical load at 68 °F (20 °C) 7 days for chemical resistance at 68 °F (20 °C)	
Further coatings	After 18 -24 hours, but not longer than 48 hours at 68 °F (20 °C)	
Amount of coats	Usually 2 coats	
Coat thickness	0.2-0.4 mm when applied in 2 layers	

The aforementioned results are related to average laboratory test results. In reality the climate changes, such as temperature, moisture and surface porosity may change these results.

VOC - CONTENCTS

The product complies with the high requirements to low VOC – Contents, as required for sustainable construction. Therefore these values exceed by far the European Union directive 2004/42/EG (decopaint-directive).

Characteristic	Max. Value	Actual Content
Directive 2004/42/EG		
Decopaint-directive	≤ 140 g/l	0 g/l
(Component A)		
Directive 2004/42/EG		
Decopaint-directive	≤ 140 g/l	1 g/l
(Component B)		
DGNB German sustainable Building	< 3 %	0.9 %
Council (Components A+B)	< 3 /6	0.9 %
Climate:active Climate protection		
Initiative of the Austrian Federal		
Ministry of Agriculture, Forestry,	< 3 %	0.9 %
Environment and Water		
(Components A+B)		
LEED Leadership in Energy and		
Environmental Design	< 100 g/l	11 g/l
(Components A+B)		
Minergie Eco [®] Quality standard of the "Minergie society", Switzerland	<1(<2)%	0.9 %
(Components A+B)	1(2)/0	0.0 /0

According to the decopaint-directive single components are used for the calculation. For the quality rating system for sustainable construction the mixture of both components in the correct mixing ratio is the determining factor.

PRODUCT DATA SHEET

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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. 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. The surface to be coated should be prepared mechanically. Diamond grinding is especially recommended for sealing coats, resulting in a smooth surface. Shotblasting is especially suitable, requiring a scratch coat with EP 50 / KLB-Mischsand 2/1 (1 : 0.5 parts by weight). Cleaning older substrates is necessary before mechanical preparation. When sealing older synthetic resin surfaces test for sufficient adhesion. Conduct a trial, if in doubt.

Priming: EP 50. For more information, refer to the relevant Technical Product Data Sheet.

Mixing: Combi-trading units will be supplied in the correctly meas- ured mixing ratio. Component B has sufficient volume for the entire trading unit. Decant component A into the hardener compound. 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. If water will be added, mix components A + B completely first. Then add water and homogenize once again completey. To avoid mixing errors, it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again. Stir up the single components for partial withdrawals and weigh for the exact mixing ratio. Processing time max. 70 minutes at 68 °F (20 °C), see chart "Processing time".

NOTE: End of pot-life is not visible!

Mixing ratios:

A:B = 1:5 parts by weight A:B = 1:4.15 parts by volume

Application: As with all reactive resins the mixture should be processed immediately. Apply with a lint-free velour-sealingroller and stripping grate. Divide working areas before starting work to avoid multiple applications and shoulders. It is recommended that larger areas will be processed by at least 2 people. One or more workers should apply the material in one direction and another person distributes the fresh sealing material crossways (in a 90° angle). A 50 cm wide roller should be used on larger areas. The roller for distribution should be soaked with the material and should only be used for distribution, never for the application of the sealer. Always work "fresh-in-fresh" and ensure an optimum distribution. Avoid ponding due to possible blooming. Floor- and air-temperature must not fall below 59 °F (15 °C) and/or 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 may malfunction, curing may be disturbed, and spotting may occur. Exposure to water has to be avoided for the first 7 days. Curing time applies to 68 °F (20 °C). Lower temperature may increase, higher temperature may decrease the curing and

processing time. If working conditions are not complied with, deviations in the described properties may occur in the end product.

Build-up of Coat:

- Grind the substrate and vacuum off thoroughly.
- Highly absorbent substrate requires an additional base coat using EP 727 E, consumption approx. 0.140 - 0.160 kg/m².
- Apply the first sealing coat EP 740 E, diluted with 5 10 % of water, with a nylon roller.
- Apply the second sealing coat EP 740 E with a nylon roller using criss-cross strokes.

Suitable Coatings:

The following self-levelling coatings can be sealed with EP 740 E:

EP 200 VF, EP 202, EP 213, EP 213 RAPID, EP 216 Universal, EP 216 RAPID, EP 220, PU 405, PU 410, PU 420, PU 421, PU 425 Comfort.

With other coatings adhesion must be tested. The surface adhesion can anyway be improved by grinding.

COVERAGE

 $0.200 - 0.250 \text{ kg/m}^2$ for each layer.

SPECIAL CONSIDERATIONS

To clean tools and fresh contamination, use water immediately. Hardened material can only be removed mechanically.

For cleaning note the recommendations for care and maintenance. For the warranty of interlayer adhesion do not apply any KLB-Floor care products on aqueous sealers within the first 7 days at 68 °F (20 °C).

In special cases, especially with vibrant colours, the cleaning might cause a loss of color. This can be avoided by laying an additional transparent sealing, e.g. EP 705 E. If necessary, ask for a consultancy.

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: RE 1

Indication of VOC-Content: (EG-Regulation 2004/42), Maximum Permissible Value 140 g/l (2010,II,j/lb): Ready-foruse product contains < 140 g/l VOC.

Contact PENETRON ROMANIA for additional information, regarding your project.

PRODUCT DATA SHEET

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PACKAGING

EP 740 E is available in 4.2+20.8 kg containers.

STORAGE / SHELF LIFE

Store in dry and frost-free conditions. Ideal storage temperature is between 50 - 68 °F (10 - 20 °C). 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. Protect from frost!

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. . KEEP OUT OF REACH OF CHILDREN.

CERTIFICATION

Slip resistance grade R10 possible, according to DIN 51130 and BGR 181.

Certified low-emission according to "Eurofins Indoor Air Comfort Gold"

Compliant with AgBB and DIBt®-accredited for recreation rooms.

Water vapor permeability, according to DIN EN ISO 7783-2.

Please ask for the tested system structure.

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KLB Kötztal Lacke + Beschichtungen GmbH
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FRG-89335 Ichenhausen
13
EP740E-V1-022013
DIN EN 13813:2003-01
Synthetic resin screed mortar
DIN EN 13813: SR-B1.5-AR0.5-IR5
Fire behavior: B_{ff}-s1
Emission of corrosive substances: SR
Wear resistance BCA: AR 0.5
Adhesive tensile strength B 1.5

1119
KLB Kötztal Lacke + Beschichtungen GmbH
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Impact resistance: IR 5

13 EP740E-V1-022013 DIN EN 1504-2:2004

Surface protection products coating DIN EN 1504-2:ZA.1d, ZA.1f, ZA.1g Abrasion resistance: complied with CO₂-permeability: SD > 50 m Water vapour permeability: Class II Capillary water absorption and water permeability: < 0.1 kg/m²*h0.5

Resistance to increased chemical excavation: complied with Impact resistance: Class I

Tear-test for adhesive strength evaluation: > 1.5 N/mm² Fire behavior: Bfl-s1

WARRANTY - DISCLAIMER

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