EPOXY RESIN MORTAR

EH2       EPOXY RESIN MORTAR
EH192     EPOXY RESIN MORTAR

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

› Product acc. to EN 13813 "Synthetic resin screed"
› Impermeable to water in accordance with DIN 1048-5 (EH2) - Verification by test report
› Company certification acc. to DIN EN ISO 9001:2015
PROPERTIES

- Easy to process
- Abrasion proof
- Resin/hardener/filler as a finished mixture
- Impermeable to water
- 3-component
- Particularly economical packing mortar (EH2)
- Floor repair mortar (EH2)
- Pigmented (EH2)
- Universally applicable coating mortar (EH192)
- Transparent (EH192)

AREAS OF APPLICATION

- Industrial halls, warehouses, garages, repair sites
- Primer: EH1, EH115
- Posts and columns
- Ramps
- Joint bridging structures
- Roller-gate floor beams
- Passenger and heavy goods vehicle balances
- For packing up posts and railing posts
- Concrete repair mortar for large and small areas
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>TYPE</th>
<th>EH2</th>
<th>EH192</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>RAL approx. 7024, 7032 transparent</td>
<td></td>
</tr>
<tr>
<td>Mixing ratio</td>
<td>Ratio by weight 3:1:29 2:1:16</td>
<td></td>
</tr>
<tr>
<td>Density (23 °C/50 % rel. air humidity)</td>
<td>kg/m³ 2,000 2,000</td>
<td></td>
</tr>
<tr>
<td>Processing time approx.</td>
<td>min 40 40</td>
<td></td>
</tr>
<tr>
<td>at 10 °C</td>
<td>min 30 30</td>
<td></td>
</tr>
<tr>
<td>at 20 °C</td>
<td>min 20 20</td>
<td></td>
</tr>
<tr>
<td>Minimum substrate temperature for application</td>
<td>°C +10 +10</td>
<td></td>
</tr>
<tr>
<td>Material consumption approx.</td>
<td>kg/(m² · mm) 2.0 2.0</td>
<td></td>
</tr>
<tr>
<td>Layer thickness</td>
<td>mm 3-40 3-50</td>
<td></td>
</tr>
<tr>
<td>Adhesive pull strength</td>
<td>N/mm² Concrete failure Concrete failure</td>
<td></td>
</tr>
<tr>
<td>failure Compressive strength*</td>
<td>1 d N/mm² ≥ 45 ≥ 90</td>
<td></td>
</tr>
<tr>
<td>7 d N/mm² ≥ 80 ≥ 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28 d N/mm² ≥ 90 ≥ 105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bending tensile strength*</td>
<td>1 d N/mm² ≥ 15 ≥ 25</td>
<td></td>
</tr>
<tr>
<td>7 d N/mm² ≥ 20 ≥ 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28 d N/mm² ≥ 20 ≥ 30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packaging</td>
<td>kg container 12.5 10</td>
<td></td>
</tr>
</tbody>
</table>

* Testing of bending tensile and compressive strength in accordance with DIN EN 196-1

**Storage:** 12 months. Cool, dry, free from frost. Unopened in its original container.

**Hazardous material:** Hazardous material, observe safety data sheet

The EU VOC content threshold values for these products (Cat. II A/j) when ready for use are: 550 g/L (2007) / 500 g/L (2010). When ready for use, these products contain 500 g/L VOC.
APPLICATION

SUBSTRATE PREPARATION:
Concrete surfaces must be prepared by, e.g. shot-blasting, milling etc., to make sure that they are ready for the coating, slightly roughened, free from dirt and any other objects that might prevent adhesion.

The aggregate particles must be exposed. The substrate must have an average tear strength of ≥ 1.5 N/mm². The substrate has to be protected against rising damp before priming.

The dew point temperature has to be observed.

MIXING THE PRIMER (EH1, EH115):
The components resin (A) and hardener (B) are supplied at adjusted mixing ratios (with the exception of resin and hardener supplied in barrels). Empty all of the hardener into the resin. Thoroughly mix the two components with a mechanical agitator with a speed of no more than 400 rpm until the mixture has been homogeneously blended (approx. 5 minutes). Transfer the mixture into a clean container and carefully mix again. The temperature of both of these components should be at least +8 °C.

APPLYING THE PRIMER (EH1, EH115):
The primer should be applied using, e.g. a rubber scraper, and evenly distributed on the concrete substrate. If required, cover the fresh primer with fire-dried quartz sand (particle size: 0.1-0.3 mm) straight after application (requires approx. 1.5-3.0 kg/m²).

If the surface is very uneven, the primer can be mixed with 35-45 % bonding agent (quartz sand 0.1-0.4 mm). This mixture is then applied using a scraper.

MIXING THE EPOXY RESIN MORTAR COATING (EH2, EH192):
The components resin (A) and hardener (B) are supplied at an adjusted mixing ratio. Empty all of the hardener into the resin. Thoroughly mix the components with a mechanical agitator with a speed of no more than 400 rpm until the mixture has been homogeneously blended (approx. 5 minutes). After mixing, transfer the mixture into a clean container and carefully mix again. The temperature of the components must be at least 8 °C. Add the homogeneously mixed resin/hardener mixture to the filler component (C) and mix with a mechanical agitator at a maximum of 400 rpm (approx. 5 min until a homogeneous mixture is achieved).

APPLYING THE EPOXY RESIN MORTAR COATING (EH2, EH192):
Apply the homogeneously mixed epoxy resin mortar to the fresh - still sticky - primer and compress. Use a trowel to compact smaller chippings, voids and tripping hazards as well as smaller surfaces. For larger areas, use a motor-driven levelling bar or screed, for example, until the surface structure has been achieved.

CURING:
The curing behaviour of reactive plastic material is affected in particular by the ambient and substrate temperature. Low temperatures slow the chemical reactions and thus prolong the time required for application, until the surface is ready for the second coat, until being able to walk on, and the total curing time; as well as increasing the amount of material required due to the higher viscosity. High temperatures accelerate the chemical reactions, thus correspondingly diminishing the above times.

In order for the reactive plastic material to fully cure, the mean temperature of the substrate must always be higher than the minimum temperature.

When used outdoors, it must be ensured that the material is protected from moisture for a sufficient period of time after application, since premature exposure to moisture can cause the surface to turn white and/or sticky, which can significantly impact on the adhesion of the next coating and might mean that the layer might have to be removed again using e.g. sandblasting. The existing material underneath this layer will cure without any problems.

CLEANING:
Carefully clean all tools with EH CLEANER AND THINNER immediately after use and when not using them for longer periods of time.

PHYSIOLOGICAL BEHAVIOUR/SAFETY MEASURES, LABELLING AND DISPOSAL:
The products are physiologically harmless after curing. Please refer to the EC Safety Data Sheet for more information on safety measures, product labelling and disposal. The VBG 23 accident prevention regulations on the application of coatings, and data sheet M017 (Solvents) of the trade association of the chemical industry must be observed. Always wear protective goggles and nitrile-impregnated cotton gloves during application.

The information provided in this leaflet, application instructions and other recommendations are based on extensive research and experience. They are, however, not binding, in particular with regard to third party proprietary rights, and do not relieve the customer of his responsibility to verify that the products and processes are suitable for the intended application. The indicated test data are mean values and average analyses. Deviations are possible when delivery takes place. Recommendations that differ from those provided in this leaflet require written confirmation. Planners and operators are responsible for ensuring that this leaflet is the latest edition and for obtaining information on the latest technological developments. Our customer service staff will be happy to answer your questions at any time. Many thanks for your interest in our products. This technical data sheet supersedes all previously issued product information. Please visit our website for the latest valid version of this brochure at www.pagel.com.

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