

## EP 1013

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| <b>PRODUCT DESCRIPTION</b>    | Two-component economic primer based on epoxy resin, solvent-free.   |
| <b>PURPOSE</b>                | <ul style="list-style-type: none"> <li>• Priming of concrete floors and cement glaze of moderate to strong absorbency;</li> <li>• Binder for levelling mortars and mortar screeds</li> <li>• Used in FLOOR EXPERT EP floor systems.</li> </ul>  |
| <b>PROPERTIES</b>             | <ul style="list-style-type: none"> <li>• penetrates deeply into the surface</li> <li>• blocks the moisture in the substrate up to 4%</li> <li>• high bond strength to the substrate</li> <li>• easy application</li> </ul>  |
| <b>DENSITY</b>                | <ul style="list-style-type: none"> <li>• Component A: 1,46 kg/l;</li> <li>• Component B: 1,04 kg/l;</li> <li>• Mixture (A+B): 1,36 kg/l</li> </ul>  |
| <b>TECHNICAL DATA</b>         | <p><b>Mixing ratio (by mass):</b></p> <ul style="list-style-type: none"> <li>• Component A : Component B - 76,9: 23,1</li> </ul> <p><b>Solid content:</b></p> <ul style="list-style-type: none"> <li>• By weight: ~ 100%</li> <li>• By volume: ~ 100%</li> </ul> <p><b>Pot- life:</b></p> <ul style="list-style-type: none"> <li>• 25 min under standard conditions</li> </ul> <p><b>Drying/hardening time under standard conditions:</b></p> <ul style="list-style-type: none"> <li>• dust dry: after approx. 10 - 12 hours</li> <li>• foot traffic: after approx. 24 hours</li> </ul> <p><b>Compressive Strength:</b></p> <ul style="list-style-type: none"> <li>• ~ 86,9 N / mm<sup>2</sup> (mixture (A+B) : quartz sand – 1 : 2,5); after 30 days of conditioning (23°C, 60% RAH);</li> </ul> <p><b>Flexural Strength:</b></p> <ul style="list-style-type: none"> <li>• ~ 36,1 N / mm<sup>2</sup> (mixture (A+B) : quartz sand – 1 : 2,5); after 30 days of conditioning (23°C, 60% RAH);</li> </ul> <p><b>Adhesion Strength:</b></p> <ul style="list-style-type: none"> <li>• ~ 5,3 N / mm<sup>2</sup> (100 % cohesive failure in concrete); after 30 days of conditioning (23°C, 60% RAH);</li> </ul> |
| <b>THERMAL RESISTANCE</b>     | <ul style="list-style-type: none"> <li>• Continuous exposure: +50 °C;</li> <li>• Longer exposure (up to 7 days): +80 °C</li> <li>• Short-term exposure (up to 12 hours): +100 °C</li> </ul>   |
| <b>APPLICATION CONDITIONS</b> | <ul style="list-style-type: none"> <li>• Substrate and air temperature: min. +10 °C; max. +30 °C</li> <li>• Relative air humidity: max. 75 %, with adequate ventilation.</li> <li>• There must be no condensation. Pay attention to the dew point.</li> </ul>   |
| <b>SUBSTRATE QUALITY</b>      | <ul style="list-style-type: none"> <li>• Compressive strength: min. 25 N/mm<sup>2</sup></li> <li>• Bond strength (pull-off test): min. 1,5 N/mm<sup>2</sup></li> <li>• The surface must be dry and clean.</li> <li>• Substrate moisture: max. 4%</li> </ul>   |
| <b>SUBSTRATE PREPARATION</b>  | <p>Mechanical treatment (grinding and /or blasting) to remove bumps and weakly bound surface layer and surface contamination.</p> <p>The cracks, pores and uneven sections should be filled with suitable material. Remove dust and loose parts by using a vacuum cleaner or brush.</p>   |
| <b>MATERIAL PREPARATION</b>   | <p>Stir the component A. Then add component B into component A and mix thoroughly with a mixer with a low speed (max. 400 r / min) until a homogeneous mixture. Then pour the mixture into another container and mix again.</p>   |

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| <b>APPLICATION METHOD</b> | As a primer apply by short-piled roller, brush or rubber wiper. The coating should entirely cover the surface. If necessary, apply in two layers.<br>Mortar for smoothing |   |  |                           |
| <b>PROTECTION SYSTEMS</b> | Primer:   |   |  |                           |
|                           | Substrate   | Product   | Consumption  |                           |
|                           | Concrete of medium absorbency   | Floor Expert EP 1013 (1x)                               | 0,30-0,40 kg/m <sup>2</sup>  |                           |
|                           | Concrete of high absorbency   | Floor Expert EP 1013 (1x)                               | 0,40-0,50 kg/m <sup>2</sup>  |                           |
|                           | Epoxy levelling mortar, thickness up to 1 mm:   |   |  |                           |
|                           | Function  | Product   | Consumption  |                           |
|                           | Primer  | Floor Expert EP 1013 (1x)                               | 0,3-0,5 kg/m <sup>2</sup>  |                           |
|                           | Epoxy leveling mortar   | Floor Expert EP 1013 : Quartz sand 0,1-0,5 mm - 1 : 0,5 | 1,59 kg/m <sup>2</sup> /per mm layer (1,06 kg of the mixture (A+B); 0,53 kg of quartz sand). |                           |
|                           | Epoxy levelling mortar, thickness up to 2 mm:   |   |  |                           |
|                           | Function  | Product   | Consumption  |                           |
|                           | Primer  | Floor Expert EP 1013 (1x)                               | 0,3-0,5 kg/m <sup>2</sup>  |                           |
|                           | Epoxy levelling mortar  | Floor Expert EP 1013 : Floor Expert quartz mix - 1 : 1  | 1,8 kg/m <sup>2</sup> /per mm layer  |                           |
|                           | Epoxy screed (15-20 mm):  |   |  |                           |
|                           | Function  | Product   | Consumption  |                           |
|                           | Primer  | Floor Expert EP 1013 (1x)                               | 0,3-0,5 kg/m <sup>2</sup>  |                           |
|                           | Bonding bridge  | Floor Expert EP 1013 (1x)                               | 0,3-0,5 kg/m <sup>2</sup>  |                           |
|                           | Epoxy levelling mortar  | Floor Expert EP 1013 : Floor Expert quartz mix - 1 : 8  | 2,4 kg/m <sup>2</sup> /per mm layer  |                           |
| <b>PACKAGING</b>          |   | Component A   | Component B  | Enough for                |
|                           | 20 kg (A+B)   | 15,4 kg   | 4,6 kg   | approx. 50 m <sup>2</sup> |
| <b>COLOUR RANGE/GLOSS</b> | Semi-transparent, glossy.   |   |  |                           |
| <b>STORAGE</b>            | In dry and airy rooms in originally sealed containers at temperatures from +5 °C to +25 °C.<br>Shelf life: 24 months  |   |  |                           |

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