




KÖSTER NB Elastic Grey

Technical Data Sheet W 233 033

Issued: 2021-08-16

- Test report 1202/793/20, MPA Braunschweig, 27.10.2020, Liquid applied water impermeable products for external installations on walls and floors, beneath ceramics tiles
 - 1202/127 / 21-1, DIN EN 1062-6: 2002: Coating materials and coating systems for mineral substrates and concrete in outdoor areas - Part 6: Determination of the carbon dioxide diffusion current density, MPA Braunschweig, June 15, 2021
 - 1202/127 / 21-1, DIN EN 1062-6: 2002: Determination of water vapor permeability - shell method, MPA Braunschweig, June 15, 2021
 - ITB (Institute for Technical Building Materials) Warsaw, test for waterproofing components in contact with the ground, tanks, balconies and terraces, document number ITB-KOT-2019/0834 version 1 of June 28, 2021
 - ITB Test Report Nr. LZM00-03431/20/Z00NZM: Mechanical, waterproofing, adhesion properties at high and low temperatures, and vapor transmission values

2 component, elastic mineral waterproofing for areas in danger of cracking. For concrete and masonry substrates. Resistant to pressurized water

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|  0761 | KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 20 W 233 EN 14891:2012 CM. O1P Liquid applied water impermeable product for external installations on walls and floors, beneath ceramic tiling |
| Initial tensile adhesion strength | > 0.5 N/mm ² |
| Tensile adhesion strength after water contact | > 0.5 N/mm ² |
| Tensile adhesion strength after heat aging | > 0.5 N/mm ² |
| Tensile adhesion strength after freeze-thaw cycles | > 0.5 N/mm ² |
| Tensile adhesion strength after contact with lime water | > 0.5 N/mm ² |
| Tensile adhesion strength after contact with chlorinated water | > 0.5 N/mm ² |
| Crack bridging ability | > 0,75 mm |
| Crack bridging ability at low temperature | > 1.7 mm (at - 5 °C) |
| Waterproofing | No penetration |
| Release of dangerous substances | Accordance with 4.2 (EN 14891) |

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| Minimum contents (synthetic comp.) | min. 60 % by weight |
| Application temperature | min. + 2 °C |
| Tensile elongation (entire system) | > 50 % |
| Crack bridging acc. EN 14891 (2 mm layer thickness) | > 0,75 mm |
| Tensile strength | ≥ 0.7 N / mm ² |
| Crack bridging EN 1062-7 | - 20 °C, Class A3 (> 500 µm) |
| Adhesive tensile strength EN 14891 | > 0.5 N / mm ² |
| Waterproof against pressurized water up to | 7 bar |
| CO ₂ diffusion equiv. air layer thickness | S _D CO ₂ > 200 m |
| CO ₂ diffusion resistance value | µ > 100000 |
| H ₂ O diffusion equiv. air layer thickness | S _D H ₂ O > 3,0 m |
| H ₂ O diffusion current density | V = 6,73 g/m ² *d |
| H ₂ O diffusion resistance value | µ = 1760 m |
| Waterproof against pressurized water EN 14891 | 7 bar |
| Pot life | approx. 2 hours |
| Resistant to foot traffic resistant | after approx. 24 hours |
| Application of following layers after | after approx. 24 hours |
| Complete drying time | (+ 20 °C, 65 % rel. Hum.) approx. 24 hours |

Features

KÖSTER NB Elastic Grey is a waterproof, elastic, wear resistant coating with excellent adhesion to all mineral substrates. The material can bridge cracks up to a width of 2 mm, is abrasion resistant, and resistant to corrosive liquids such as dilute acids and alkalis. It possesses a good UV-resistance.

Advantages:

- Crack bridging up to 2 mm.
- Resistant to foot traffic.
- Ideal for balconies and terraces under tile.
- Suitable for moist surfaces.
- Together with KÖSTER NB 1 Grey suitable for negative side waterproofing.
- Cement based system.
- Suitable for mineral substrates such as concrete and brick walls.

Technical Data

Density (powder and liquid) approx. 1.7 g / cm³

Fields of Application

Coatings made of KÖSTER NB Elastic Grey are resistant to wear, elastic, and waterproof. Such coatings can be used for areas subject to mechanical stresses and for areas which might be subject to cracking such as waterproofing layers on terraces and balconies, as protection for concrete surfaces accessible for maintenance, as waterproofing for water tanks, swimming pools, and wet and damp rooms underneath tiles and ceramic coverings. If a waterproofing (2 layers) is made of KÖSTER NB Elastic Grey, the material can also be used as tile adhesive for tiles, (applied as a third layer). It is not suited for waterproofing against negative side water pressure and it is not suited for waterproofing roofs.

- Waterproofing balconies and terraces before laying ceramic tiles.
- Waterproofing swimming pools from the positive side before laying ceramic tiles.
- Waterproofing hydraulic channels, faces of dams over KÖSTER NB 1 Grey, basins, and tanks.
- Waterproofing plasterboard, render or cementitious surfaces,

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| KÖSTER BD Flex Tape K 120 | Prod. code B 931 |
| KÖSTER Polysil TG 500 | Prod. code M 111 |
| KÖSTER Restoration Plaster White/Fast | Prod. code M 663 |
| KÖSTER NB 1 Grey | Prod. code W 221 025 |
| KÖSTER Glass Fiber Mesh | Prod. code W 411 |
| KÖSTER Flex Fabric | Prod. code W 450 100 |
| KÖSTER Repair Mortar | Prod. code W 530 025 |
| KÖSTER Repair Mortar Plus | Prod. code W 532 025 |
| KÖSTER SB Bonding Emulsion | Prod. code W 710 |
| KÖSTER NB 1 Flex | Prod. code W 721 008 |
| KÖSTER SD Protection and Drainage Sheet 3-400 | Prod. code W 901 030 |
| KÖSTER NB 1 Brush for slurries | Prod. code W 913 001 |
| KÖSTER Peristaltic Pump | Prod. code W 978 001 |

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KÖSTER

Waterproofing Systems

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| Technical Data | Product Name: KÖSTER NB Elastic Grey |
| Material Class | Elastic Cementitious Coating |
| Temperature range for application | + 5 °C to + 35 °C |
| Consumption approx. | 3.6 – 4.5 kg / m ² |
| Layers | 2 / no primer (W) |
| Color | Light Grey |
| Solvent-Free | Yes |
| Can be plastered over | + |
| Mode of application | Trowel, Brushable , Sprayable |
| Suitable for negative side waterproofing | Sandwich-Waterproofing / over KÖSTER NB 1 Grey |
| Waiting time until backfilling | >48 hours |
| Simplicity of application | ++ |
| Substrate | |
| Masonry | +++ |
| Cementitious plaster | +++ |
| Concrete | +++ |
| Polystyrene | + |
| Old Bitumen membranes | ++ |
| Moisture condition of surface | Dry or moist |
| Plaster | +++ |
| Concrete or ceramic bricks | +++ |
| Screeds | +++ |
| Old ceramic substrates | +++ |
| Gypsum | + |
| Performance | |
| Waterproofing against max. load condition | Pressurized Water |
| Time until rainproof | Approx. 8 hours |
| Chemical resistance | Good |
| Permeability to vapor diffusion | Medium |
| UV-resistance | Long term resistant |
| Abrasion resistance | +++ |
| Crack bridging | +++ |
| Embedding of a mesh | Yes |

Lower+ Medium++ High+++

W wetting is sufficient (substrates should be moist). In case of highly absorbent substrates prime with KÖSTER Polysil TG 500

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