



KÖSTER NB Elastic Grey

Two component elastic cementitious waterproofing

Features

KÖSTER NB Elastic Grey is a waterproof, elastic, wear-resistant coating with excellent adhesion to cementitious and masonry substrates. The material can bridge cracks up to a width of 40 mils (0.04-in), is abrasion resistant, UV-resistant, and resists concrete corrosion from dilute acids and alkalis.

Technical Data

Mixed density	14.2 lb/gal
Binder components	Min. 52% by weight
Application temp.	Min. 35° F
Tensile elongation	> 50%
Tensile strength	100 psi
Crack bridging	0.08-in
Adhesive tensile strength	> 70 psi
Waterproof against pressurized water	> 100 psi
Working time	Approx. 2 hrs
Resistant to foot traffic	Approx. 24 hrs
Application of subsequent layers	After approx. 2 days

Fields of Application

KÖSTER NB Elastic Grey coatings are wear-proof, elastic, and waterproof, and can be used for areas subject to mechanical stresses and areas that are subject to cracking such as waterproofing layers on terraces and balconies, as protection for concrete surfaces subject to foot traffic, waterproofing for water tanks, swimming pools, and wet rooms. If a waterproofing system of 2 layers of KÖSTER NB Elastic Grey is applied, the material may also be used (applied as a third layer) as tile adhesive. It is not suitable for waterproofing against negative side water pressure or for waterproofing roofs.

Substrate

Substrates to receive KÖSTER NB Elastic Grey must be sound, solid, and clean. Prime absorbent substrates with Koster Polysil TG 500. Dampen non-absorbent substrates. Avoid standing water on the area to be sealed.

Application

Mix both components thoroughly with a low speed, electrically powered mixer while adding the powder component to the liquid component. KÖSTER NB Elastic Grey is applied in at least two layers with a trowel or brush. Processing with the KÖSTER peristaltic pump is also possible. Alternatively, the BMP 6 or BMP 7 can be used, for this purpose a 3/4" hose with max. 10 m hose (nozzle 8.5 mm, engine power 1st gear, speed 50-80%). For improved processing, up to 0.5 liters of water can be added to the material per container. In areas particularly at risk of cracking, KÖSTER Flex Fabric is embedded in the top of the fresh first layer. Apply at least a second layer. The second layer is applied when the first layer is no longer damaged by the

application. For wall/floor joints, corners and details, KÖSTER Flex Fabric must always be embedded in the top of the fresh first layer. Freshly applied KÖSTER NB Elastic Grey must be protected from frost and rain until it is completely cured.

New construction:

It is necessary to prepare the substrate correctly to achieve the guaranteed durability. The edges must be rounded with appropriate tools and the surface of the walls must be intensively cleaned with high-pressure water to be cleared of any adhesion-inhibiting substances.

The surface roughness must be levelled according to the depth. Level surfaces with a surface roughness depth ≥ 5 mm (i.e. voids and any irregularities in joints or breakouts) with KÖSTER Repair Mortar Plus or KÖSTER Repair Mortar with the addition of a maximum of 30% KÖSTER SB Bonding Emulsion added to the mixing water.

In case of surface roughness depth of ≤ 5 mm or by negative side water incursion (i.e. surface irregularities, unevenness or small defects and break outs etc.) level the surface with KÖSTER NB1 Grey with the addition of KÖSTER NB 1 Flex in the mixing water, applied with the KÖSTER Brush for Slurries.

Prime mineral substrates with KÖSTER Polysil TG 500 using a large brush or spray pump. Weakly absorbent or non-absorbent substrates must be pre-wet with water until they are moist.

Restoration:

Clean the surface with high pressure water jet (approx. 400 bar) following proper methods to clear any adhesion-reducing materials. Old coatings must be removed down to a clean mineral substrate.

Protect strongly moistened substrates where the moisture is visible and the color of the surface is dark due to moisture by applying KÖSTER NB 1 Grey at least one day prior to waterproofing. Apply with a KÖSTER Brush for Slurries against negative side water incursion.

Clean the joints from loose grout and mortar approx. 2 cm deep and subsequently fill with KÖSTER Repair Mortar Plus with a maximum of 30% KÖSTER SB Bonding Emulsion added to the mixing water.

Level rough surfaces with a surface roughness depth of ≥ 5 mm (i.e. voids and any irregularities in joints or breakouts) with KÖSTER Repair Mortar Plus or KÖSTER Repair Mortar with a maximum of 30% KÖSTER SB Bonding Emulsion added to the mixing water.

In case of surface roughness depth of ≤ 5 mm or by negative side water incursion (i.e. surface irregularities, unevenness or small defects and break outs etc.) level the surface with KÖSTER NB1 Grey with the addition of KÖSTER NB 1 Flex in the mixing water, applied with the KÖSTER Brush for Slurries.

Prime mineral substrates with KÖSTER Polysil TG 500, applied in one work step undiluted to the surface until full saturation (in case of highly absorbent surfaces, apply two coats) by brush or spraying.

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The installer is responsible for the correct application taking into consideration the specific conditions of the construction site and the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which deviate from the specifications contained in any Company literature may not be relied upon in the absence of written confirmation from the Company. The installer must comply with all testing, technical requirement, guidelines, and industry customs at all times. The terms, conditions, and limitations contained in the written warranty for the product controls over the specifications contained herein. This guideline has been technically revised; all previous versions are invalid.

