

T 704 / 0202

KÖSTER® NB 2000

Elastic Waterproofing Slurry (2 components)

General Information:

KÖSTER NB 2000 is a cement-acrylic based, two component and highly elastic waterproofing coating with excellent adhesion to all mineral substrates. The material can bridge cracks in the substrate and has good resistance.



Fields of Application:

- On horizontal and vertical surfaces and indoors/outdoors,
- Can be applied (from the positive side) above and below ground,
- Waterproofing of exterior basements walls, retaining walls, balconies and terraces (under screed or tiles), wet areas such as bathrooms and kitchens (under screed or tiles), in swimming pools, Turkish baths and water tanks, in flower beds and roof gutters,

Application Substrates: Can be applied on substrates like concrete, screed, mortar, fiber-cement boards, masonry etc.

Advantages:

- Impermeable to water but permeable to water vapor.
- Easy to apply and has high application rate.
- Can be applied with a brush or suitable airless spray equipment.
- Resistant to freezing - thawing cycle.

- Has very high adhesion strength.
- Can be coated with ceramic.
- Creates a jointless waterproofing layer.

Technical Informations

Compression Strength (28 days) EN 196-1 15,0 N / mm²

Bending Strength (28 days) EN 196-1 6,60 N / mm²

Mix ratio 0,32 lt liquid / kg powder

Adhesion to concrete 1,5 N / mm²

Application temperature between +5°C and +30°C

Density of powder component 1,5 kg / lt

Density of liquid component 1,03 kg / lt

Density in the mixture 1,88 - 1,90 kg / lt

Application Methods:

Surface Preparation:

The surface has to be sound and solid, free of cement laitance, paint, dust, form oil and other contaminants that might affect the bonding adversely. Suitable tools for surface preparation are wire brushes, high-pressure water jets, sand- and shot blasting. After surface preparation the substrate should be rough with a sandpaper-like texture and open pores. Cracks and surface honeycombs should be chiseled open.

Cracks, honeycombs and depressions larger than 5 mm should be filled with KÖSTER Repamor (cement-based repair mortar) and be left for curing for at least 24 hours.

Floor-wall junctions should be rounded with a fillet (radius > 4cm) made from KÖSTER Repamor (cement-based repair mortar) and waterproofed with KÖSTER NB 2000 embedded in a 20cm wide stripe of fiber mesh (80gr/m²). Alternatively, fillets can be waterproofed with KÖSTER K120-W joint tape.

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Preparation of the Mixture:

Add the liquid component (10 kg) to a clean container. Then slowly add the powder component (20 kg) while stirring with a power mixer (400rpm) equipped with a suitable mixing paddle. Mix for apr. 2-3 minutes and until a homogenous-lump free mix is obtained. Let the mix rest for 1 minute so the air entrapped during mixing can escape. Do not add water, cement or aggregates. Do not prepare the mix by hand.

Application of KÖSTER NB 2000:

KÖSTER NB 2000 is applied with a brush or suitable airless spray equipment. The application is done in 2 or 3 layers. The coats should be applied homogeneously and properly, and the application should be done in the same direction on each floor. During application, the ambient and surface temperature should be between +5°C and +30°C.

KÖSTER NB 2000 Application:

Apply KÖSTER NB 2000 with a firm brush or a suitable spraying machine. Allow every coat to dry completely before applying the next one. Do not apply layers thicker than 1,0 mm in a single coat. Do not apply material that has started to cure.

Cleaning of Tools:

Clean tools with water while they are wet.

Important Notes:

Do not apply below +5C or if temperatures below +5C are expected within 24 hours. Do not apply on wet or frozen surfaces. Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test. During hot weather, protect the material from rapid evaporation or apply the material during morning hours.

Consumption:

2,0-4,0 kg/m² depending on application (total consumption in 2 coats).

Packaging: 30kg as a SET.

Powder component 20 kg bag

Liquid component 10 kg jerrycan

Note: Components not sold separately.




Storage and Shelf Life:

Keep dry, store out of direct sunlight. Protect from moisture and water. Shelf life is 12 months.

Caution:

Powder component contains cement. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

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KÖSTER YAPI KİMYASALLARI GEBKİM Kimya İhtisas OSB Atatürk Bulvarı No:6 41455 DİLOVASI / KOCAELİ 16	
1020 - CPR - 040 051989 / DOP NO: 066 EN 1504-2 KÖSTER NB 2000 Esnek Su Yalıtımı Harcı / Elastic Waterproofing Slurry Kaplama Uygulaması / Coating Application (C)2.2	
Kapiler su emme ve su geçirgenliği Determination of liquid water permeability (EN 1062-3)	$W < 0,1 \text{ kg/m}^2 \cdot \text{h} 0,5$
Su buharı geçirgenliği Determination of water-vapour transmission properties (EN ISO 7783-1, EN ISO 7783-2)	Sınıf I / Class I
Çekip koparma deneyi yoluyla yapışma dayanımı / Measurement of bond strength by pull-off (EN 1542)	Trafik yükü olmadan çatlak kapatma veya esnek sistemler / Crack closure or flexible systems without traffic load $> 0,8 \text{ N/mm}^2 (0,5)^b$
Yangına karşı tepki / Reaction to fire (EN 13501-1)	C-s1,d0
Tehlikeli maddeler / Dangerous substances	Madde 5.3'e uygun In accordance with article 5.3

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