

## KÖSTER® NB Super

### Capillary crystallising, cement based waterproofing slurry (1C)

- **Official Test Certificate**, Hygienic – Institute, Gelsenkirchen – Container and Container Coating, acc. To regulation DVGW, Techn. Regulations, Leaflet W 270, Dec. 1990, about the multiplying of micro-organisms on materials for drinking water surroundings
- **Official Test Certificate**, AMPA for stones and ground, Clausthal-Zellerfeld – Test acc. To leaflet for cement bound rigid and flexible sealing slurries (ibh)
- **Official Test Certificate**, Hygienic Institute, Gelsenkirchen – Container and Container Coatings acc. To recommendation of the study group "drinking water interests" of the Synthetics Commission of the Federal Health Authority
- **Official Test Certificate** of Law Engineering Inc., Atlanta, USA – Water Permeability (negative side), water permeability (positive side), abrasion resistance, compressive strength, tensile strength
- **Official Test Report**, College of East Friesland – Water Vapour Permeability

#### **Product Description:**

Turkish product name > KÖSTER NB Super

KÖSTER NB Super sealing slurry is a mineral coating with excellent capillary sealing properties. It contains crystallising agents which penetrate deep to fill the voids and capillaries and that react with moisture and ingredients in the substrate to form crystals and thus creating the waterproofing effect, to seal off ground moisture, non-pressurized and pressurized water – on both the positive and negative side. The KÖSTER NB Super sealing slurry becomes integral part with the substrate itself. Once applied to the substrate, it leaves a coating with excellent pressure- and abrasion resistance and has excellent resistance to chemical compounds.

NB Super should only be used on substrates that are free of cracks. Because NB Super reacts with the free lime in the substrate, it uses the strength and decreased porosity of the substrate to create its waterproofing effect; it can be used on both positive and negative side.

#### **Applications:**

KÖSTER NB Super sealing slurry seals horizontal and vertical surfaces made of concrete, masonry or cementitious plaster (only positive side) in damp rooms,



bathrooms, shower rooms, new basements, containers, swimming pools, silos, sewage plants, shafts, retaining walls, planters etc.

KÖSTER NB Super sealing slurry can be used on both positive and negative side, provided that access to the base substrate is possible (e.g. the internal wall of a basement is stripped off plaster for treatment directly on the base wall).

#### **Technical Data:**

Compressive strength (28 day) EN 196-1 27,0 N / mm<sup>2</sup>

Tensile strength (28 day) EN 196-1 8,0 N / mm<sup>2</sup>

Application temperature +5°C to +30°C

Mixing density 1,88 g / cm<sup>3</sup>

Powder component density TS EN 6433 1,14 g / cm<sup>3</sup>

## **Instructions:**

**Job Conditions** - Air and surface temperature for application must be +5°C to +30°C and must remain so for a minimum of 24 hours.

**Temporary Protection** - Shall be provided at all times until the material is fully cured. After application surface must be water mist cured for 72 hours.

**Surface Preparation** - The surface has to be sound and solid, free of laitance, paint, dust, form oil and other contaminants that might affect the bonding adversely. Suitable tools are wire brushes, high-pressure water jets, sand and shot blasting. Cracks and surface honeycombs should be chiselled open so that application of an even uniform coat can be achieved. Smaller honeycombs, cracks and depressions should be filled with KÖSTER Repamor THIN and be allowed to dry for 24 hours before commencing. Cracks, honeycombs and depressions larger than 5 mm should be filled with KÖSTER Repamor and be left for curing for at least 24 hours.

Surfaces must be damped before application but water ponding should be prevented.

**Primer** – Dusting, weak or salt efflorescence containing surfaces should be primed with KÖSTER Polysil TG 500.

**Mixing** – One bag (25 kg) of KÖSTER NB Super should be mixed with 8,0 – 8,5 lt of clean water.

The powder should always be added to the water slowly and during continuous mixing action with power mixer equipped with mixing paddle.

**Subsequent layers** – Apply the sealing slurry with a firm brush or a suitable spraying device. Allow every coat to dry completely before applying the next one.

Do not apply layers thicker than 1,0 mm in a single coat.

## **Negative Side Waterproofing of basements**

KÖSTER NB Super should always be applied to the concrete base material. On negative side waterproofing applications never apply the slurry on the plaster. For weak, dusting or salt efflorescence containing surfaces always prime the surface with KÖSTER Polysil TG 500 (app. 125 g/m<sup>2</sup>).

## **Consumption:**

Against ground moisture min. 1,0 kg/m<sup>2</sup> in 2 layers

Against non-pressurized water min. 1,5 kg/m<sup>2</sup> in 2 layers

Against pressurized water min. 2,0 kg/m<sup>2</sup> in 3 layers

## **Packaging:**

NB Super 25 kg bag



## **Cleaning of Tools:**

Clean tools with water while material is still wet.

## **Notes:**

Do not apply below +5°C or if temperatures below +5°C 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.

## **Storage:**

Containers must be stored at +5°C to +30°C in tightly sealed containers. Keep out of direct sunlight, protect from water and freezing.

**Shelf Life:** 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.

	
<b>KÖSTER YAPI KİMYASALLARI İNŞ. SAN. ve TİC. A.Ş.</b> <b>GEBKİM Kimya İhtisas OSB Atatürk Bulvarı</b> <b>No: 6 41455 DİLOVASI / KOCAELİ</b> <b>16</b>	
<b>DOP NO: 002</b> EN 1504-2 <b>NB Süper</b> Capillary crystallising, cement based waterproofing slurry (1C) Coating application (C) 2.2	
Permeability to water vapour	Class I
Response to Fire	C <sub>s1,d0</sub>
Dangerous Materials	Materials 5.4 appropriate

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