

CUGLATON® UHSM 5MM

- CUGLATON UHSM 5MM has been specially developed for constructions where high strength is required.
- Thanks to the optimum composition CUGLATON UHSM 15MM is particularly suitable for use where, in addition to a high initial strength, also a very high final strength (K100 / C110) is required.

Applications

| | |
|---|--|
| Civil and public utilities / prefab construction | Grouting prefab concrete elements Casting gains |
| Industrial construction | Bonding heavily laden anchors |
| Concrete construction and hydraulic engineering | Bonding anchors Grouting supports |

Classification

NON-SHRINK MORTARS



| | | |
|--------------------------|--------|-------------|
| Mortar sort | | Grout |
| Mortar type | | 5 mm |
| Strength class | 7 days | K100 |
| Environment class | | X0 t/m XA3 |
| Average shrinkage | | < 0,50 mm/m |

Directions for use

Pre-treatment

The surface onto which CUGLATON UHSM 5MM has to be applied needs to be clean. The cement skin coating should be removed and no free water may be present.

- Pre-treatment with water.
The surface must only be moistened with water (Please note: No free water!)
- or
- Pre-treatment CUGLACRETE HECHTPRIMER CEMENTGEBONDEN or CUGLACRETE HECHTPRIMER EPOXY SEALER.
For an optimum bond we advise the use of CUGLACRETE HECHTPRIMER CEMENTGEBONDEN, a cement polymer modified system, or CUGLACRETE HECHTPRIMER EPOXY SEALER, an epoxy-based system.

Mixing

Mechanically mix CUGLATON UHSM 5MM until it becomes a homogeneous mixture. Mixing time depends on the type of mixer, approx. 5 minutes.

Water dosage

Water bandwidth: 1,6 – 2,0 ltr/20 kg mortar. Dose, within the indicated water bandwidth, with plenty of water so as to produce a mortar with a flow of approx. 650 mm.

Follow-up treatment

The finished surface must be carefully protected against dehydration with CUGLA CURING COMPOUND, or by covering with a plastic sheet.

Storage and shelf life

If stored in a dry place it has a shelf life of up to 12 months after production date, as stated on the packaging.

Technical data at 20°C/65% RH

| | | | |
|--|-------------|-----------|-------------------|
| Maximum grain | | 5 | mm |
| Cement sort | | Portland | |
| Water bandwidth | | 1,6 - 2,0 | ltr/20 kg mortar |
| Consumption per m³ approx. | | 2100 | kg |
| Density | | 2300 | kg/m ³ |
| Layer thickness | | 300 | mm max. |
| Flow measure | t = 0 min. | >650 | mm |
| ("flow gutter" method) | t = 30 min. | >600 | mm |
| Initial setting time | | 30 | minutes |
| Drying shrinkage NEN 3534 | 24 hours | < 0,3 | mm/m |
| | 28 days | < 0,8 | mm/m |
| Pull out test NEN-EN 1881 | Dry | 0,40 | mm |
| | Wet | 0,20 | mm |
| E-modules NEN-EN 13412 | | 43.000 | N/mm ² |
| Bleeding | | None | |

Strength development

| Temperature | | Test piece (mm) | 24 hours | 48 hours | 72 hours | 7 days | 28 days |
|-------------|-------------------|-----------------|----------|----------|----------|--------|---------|
| 20 °C | N/mm ² | 150*150*150 | 80 | 90 | 95 | 103 | 123 |
| 10 °C | N/mm ² | 150*150*150 | 38 | 80 | 90 | 100 | |
| 5 °C | N/mm ² | 150*150*150 | 15 | 70 | 80 | 95 | |
| 0 °C | N/mm ² | 150*150*150 | 3 | 59 | 71 | | |

Cuglaton[®] does not contain any chloride, nor any other corrosive substances. For application at temperatures < 0 °C please contact Cugla B.V.

Health aspects

Cugla advises:

- To wear the correct gloves and goggles.
- To avoid contact with eyes and skin.
- In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.
- In case of swallowing the product, immediately contact a doctor and show the package or the safety data sheet.

For detailed information we refer to the safety data sheet, SDS Cuglaton UHSM 5MM, on our website.