



NEODUR Grouting mortar/concrete

per 11/2024

mineral, hydraulic setting, highly flowable expansive grouting mortar/concrete for all kinds of grouting and assembly works

DESCRIPTION

NEODUR VM 1, VM 3 and VB 8 grouting mortar/concrete are ready to use, non-shrink and high-early strength grouting mortars for all kinds of grouting and assembly works, based on high-grade KORODUR aggregates.

- NEODUR VM 1: grain size 0 - 1 mm
- NEODUR VM 3: grain size 0 - 3 mm
- NEODUR VB 8: grain size 0 - 8 mm

APPLICATION

For full bond grouting works, e.g. for anchor and assembly holes, grouting underneath of machines, turbines, craneway rails, steel and concrete supports, railing posts, pipe culverts and channels for heavy-loads for traffic areas.

Due to their final strengths NEODUR grouting mortars/concretes are suitable for highest dynamic and static stress.

PROPERTIES

- highly flowable
- non-shrink
- fast-setting
- high early and final strengths
- solid bond to concrete and steel
- frost and de-icer resistant
- waterproof
- chloride-free
- easy to mix
- pumpable
- for indoors and outdoors

TECHNICAL DATA

| | | |
|--|---|---|
| Quality | NEODUR VM 1 NEODUR VM 3 NEODUR VB 8 | C55/67 C55/67 C55/67 |
| Grain size | NEODUR VM 1 NEODUR VM 3 NEODUR VB 8 | 0 - 1 mm 0 - 3 mm 0 - 8 mm |
| Compressive strength [N/mm ²] | NEODUR VM 1 NEODUR VM 3 NEODUR VB 8 | after 24 hours ≥ 35 N/mm ² after 28 days ≥ 65 N/mm ² |
| Grouting height/width | NEODUR VM 1 NEODUR VM 3 NEODUR VB 8 | approx. 5 - 20 mm approx. 10 - 50 mm approx. to 250 mm |
| Slump | NEODUR VM 1 NEODUR VM 3 NEODUR VB 8 | ≥ 550 mm after 5 minutes |
| Swelling value | all qualities | ≥ 0,1 Vol. % |
| Water addition | all qualities | approx. 3,0 l/25 kg |
| Yield | all qualities | approx. 12 - 13 l/25 kg |
| Temperature processing, ambient and sub-base temperature | all qualities | ≥ 5 °C |

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PROCESSING

Sub-base

For full bond the sub-base must be free from cracks, flat, free from loose debris, dust, cement slurry, oils and greases. Pre-wet the sub-base for approx. 6 - 24 hours until capillary saturation is achieved, avoiding formation of puddles.

Processing

Mix a complete bag NEODUR grouting mortar/concrete with the specified amount of water for approx. 3 minutes in suitable pan type mixer or with stirrer (approx. 400 rpm) or pump with suitable mixing and pumping equipment, for example with S 5 EV EVTm from Putzmeister, PA-BEC from Bau-Maschinen Beckschulte, Project CP 30 BASIC from EUROMAIR, or with EMT 75 from ESKA-Maschinentechnik.

Grouting must be carried out without cavities and without interrupting work. Ventilation must be ensured.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process. NEODUR grouting mortar/concrete must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3.

Protect exposed grouting mortar surfaces immediately against premature water evaporation (exposure to wind, draughts, sunlight, etc.) for a period of 3 - 5 days.

After-treatment can be carried out with water mist, covering with foil, damp jute fabric, thermal foils or moisture-retaining protective sheeting or with KOROTEX, see data sheet.

SUPPLY

25 kg special paper packaging (NEODUR VM 1, VM 3 and VB 8)
loose in silo (NEODUR VM 1 and VM 3)
big bag (NEODUR VM 1 and VM 3)

STORAGE

Dry, like cement. Shelf-life approx. 12 months.

HINTS: This product contains cement and has an alkaline reaction with moisture/water. Therefore protect skin and eyes. In case of contact with eyes, consult a doctor. The specifications provided in this data sheet for application and processing are based on tests carried out by KORODUR under ideal conditions in the laboratory and acc. to the relevant technical regulations. Therefore, the indicated data don't represent directions for application or a quality agreement in the meaning of § 434 (1) BGB, no regulation in the meaning of § 434 (2) sentence 2 BGB (German Civil Code) and no guarantee for practical application. Due to the differing conditions on site, preliminary own tests and suitability checks are required before application. Please consider the currently valid product information as well as the relevant safety data sheet acc. to Regulation (EC) No. 1907/2006 in the latest version – also published on the internet: www.korodur.de.



ISO 9001
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www.tuv-sud.de/ims-zert



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