NEODUR VM 5 Grouting concrete

per 05/2025

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

DESCRIPTION

NEODUR VM 5 is a ready to use, non-shrink, fast-setting and early high-strength grouting concrete acc. to DAfStb guideline VeBMR.
For all kinds of grouting and assembly works, based on high-grade KORODUR aggregates.

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 its final strengths NEODUR VM 5 is 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
- for indoors and outdoors

TECHNICAL DATA

Quality	C80/95						
Grain size	0 - 5 mm						
Compressive strength	≥ 95 N/mm²						
Grouting height/width	up to 200 mm						
Swelling value	≥ 0,1 vol. %						
Water addition	approx. 3,0 – 3,2 l/25 kg						
Yield	approx. 12 - 13 l/25 kg						
Slump class	a3> 700 mm						
Shrinkage class	SKVB I						
Temperature	≥ 5 °C						
Humidity classes based on concrete corrosion due to alkali-silica reaction. The aggregates of the NEODUR products comply with DIN EN 12620 of alkali sensitivity class E1 from harmless resources.	**Humidity class**						
	WO	WF	WA	WS			
	fulfilled						
Exposure class acc. to DIN EN 206-1 / DIN 1045-2	XO	XC	XD	XS	XF	XA**	XM
		1234	123	123	1234	123***	1
	fulfilled						

** at sulfate attack up to 1.500 mg/l *** with additional safety measures acc. to DIN 1045-2, proof of sulfate resistance acc. to DIN 19573, Appendix C.

APPLICABLE NORMS / GUIDELINES

DAfStb guideline (VeBMR) production and use of cementitious grouting mortar and grouting concrete, DIN EN 1504-3, DIN 12620 and DIN EN 206.

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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 thoroughly, avoiding formation of puddles.

Processing
Mix a complete bag NEODUR VM 5 with the specified amount of water for approx. 3 minutes in suitable pan type mixer or with stirrer (approx. 400 rpm).

The grouting must take place void-free and without interrupting work. Take care for ventilation. NEODUR VM 5 may be pumped in customary worm and concrete pumps.

AFTER-TREATMENT

Differing temperatures may influence the setting and hardening process.
NEODUR VM 5 must be protected from too rapid drying out acc. to DIN EN 13670 / DIN 1045-3.

SUPPLY

25 kg special paper packaging
loose in silo
big bag

STORAGE

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

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