



NEODUR MSM 3 / MSM 5 / MSB 8

Status 01/2021

**mineral, microsilica-modified shotcrete mortar / concrete
for dry shotcrete method**

DESCRIPTION

NEODUR MSM 3, MSM 5 and MSB 8 are hydraulic setting, microsilica-modified shotcrete mortars/concretes for the dry shotcrete method in reference to DIN 18551.

- NEODUR MSM 3: grain size 0 - 3 mm
- NEODUR MSM 5: grain size 0 - 5 mm
- NEODUR MSB 8: grain size 0 - 8 mm

APPLICATION

For the production of shotcrete mortar/concrete in dry shotcrete method, for new construction and repair, e.g. for concrete repair, drinking water reservoirs, tunnel construction, special civil engineering, slope and building pit stabilization, for strengthening of existing constructions. The materials allow problem-free overhead processing, smoothing and grinding.

PROPERTIES

- microsilica-modified
- low rebound
- water impermeable
- frost and de-icer resistant
- solid bond to concrete and steel
- chloride-free
- can be trowelled and smoothed
- can be machine sprayed, also overhead

TECHNICAL DATA

Quality	all qualities	C35/45
Grain size	NEODUR MSM 3 NEODUR MSM 5 NEODUR MSB 8	0 - 3 mm 0 - 5 mm 0 - 8 mm
Colour	all qualities	cement grey
Layer thickness	all qualities	approx. 15 - 50 mm, in one layer
Temperature processing, ambient and sub-base temperature	all qualities	≥ 5 °C
Yield	all qualities	approx. 12 l/25 kg

PROCESSING

Sub-base

Prepare base concrete (surface bond strength $\geq 1,5 \text{ N/mm}^2$). Clean surface from loose debris such as dust, cement slurry down to the load-bearing underground, roughen as needed. Remove loose reinforcement, replace reinforcement vibration-free, as needed. Pre-wet sub-base thoroughly until capillary saturation is achieved.

Processing

Application on the matt-damp surface acc. to DIN 18551 in dry shotcrete method.

A homogenous spray pattern, low rebound and optimal concrete quality are achieved by uniform circular movements of the spray nozzle at a distance of approx. 1 m and an angle of 90° to the wall.

AFTER-TREATMENT

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

SUPPLY

25 kg special paper packaging

STORAGE

Dry, like cement. Shelf-life approx. 6 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.