



NEODUR SM Shotcrete mortar

Status 01/2021

**mineral, highly wear-resistant shotcrete mortars
for dry shotcrete method**

DESCRIPTION

NEODUR SM, SM SVS 3 and SM SVS 1,5 are hydraulic binding, highly wear-resistant shotcrete mortars in dry shotcrete method in reference to DIN 18551.

- NEODUR SM: wear resistance $\leq 6 \text{ cm}^3/50 \text{ cm}^2$
- NEODUR SM SVS 3: wear resistance $\leq 3 \text{ cm}^3/50 \text{ cm}^2$
- NEODUR SM SVS 1,5: wear resistance $\leq 1,5 \text{ cm}^3/50 \text{ cm}^2$

APPLICATION

For the production of highly wear-resistant shotcrete mortars in dry shotcrete method, for new construction and repair, e.g. for concrete areas (e.g. in coal, mining and other raw material bunkers, silo containers etc.) which are exposed to increased wear. Indoors and outdoors. The materials can be trowelled and smoothed.

PROPERTIES

- highly wear resistant
- high compressive strength
- 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	C60/75
Grain size	all qualities	0 - 5 mm
Colour	all qualities	cement grey
Wear resistance abrasive wear acc. to Böhme acc. to DIN EN 13892-3	NEODUR SM NEODUR SM SVS 3 NEODUR SM SVS 1,5	$\leq 5 \text{ cm}^3/50 \text{ cm}^2$ $\leq 3 \text{ cm}^3/50 \text{ cm}^2$ $\leq 1,5 \text{ cm}^3/50 \text{ cm}^2$
Layer thickness	all qualities	approx. 15 - 30 mm, in one layer
Temperature processing, ambient and sub-base temperature	all qualities	$\geq 5 \text{ }^\circ\text{C}$

PROCESSING

Sub-base

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