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NEODUR PFM-EP / NEODUR PFM-PU

2-component paving joint mortar on epoxy resin and polyurethane resin base for grouting of paving areas

DESCRIPTION

NEODUR PFM-EP and NEODUR PFM-PU paving joint mortars are ready formulated, water permeable, 2-component mortars which allow precipitation to seek into the sub-base.

- NEODUR PFM-EP paving joint mortar on epoxy-resin base
- NEODUR PFM-PU paving joint mortar on polyurethane resin base

APPLICATION

For new grouting and renovation of joints in natural, concrete and clinker stone paving in pedestrian zones, gardens, sidewalks, inner courtyards, garages, driveways and street paving. For old and new natural, concrete or artificial stone paving. For light and medium stress.

PROPERTIES

- high compressive and flexural strengths with perfect stone embedding
- durable and non-deformable
- pollutant-free
- water permeable

TECHNICAL DATA

Colour	NEODUR PFM-EP NEODUR PFM-PU	sand / grey sand / grey / basalt	
Bulk density	NEODUR PFM-EP NEODUR PFM-PU	approx. 1,45 kg/dm ³ approx. 1,40 kg/dm ³	
Compressive strength [N/mm²] compacted	NEODUR PFM-EP NEODUR PFM-PU	≥ 25 N/mm ² ≥ 20 N/mm ²	
Processing time	NEODUR PFM-EP NEODUR PFM-PU	approx. 20 minutes approx. 60 minutes	
Stress / loadability at +20 °C and relative air moisture of 65 %	all qualities	walking stress after 24 h. full stress after 7 days	
Joint dimensions *for regrouting or stone height for new paving	NEODUR PFM-EP	joint width minimum 8 mm joint depth* minimum 30 mm	
	NEODUR PFM-PU	joint width minimum 5 mm joint depth* minimum 30 mm	
Ambient and sub-base temperature	NEODUR PFM-EP NEODUR PFM-PU	8 °C - 25 °C 10 °C - 25 °C	
Consumption for individual paving stone formats *The consumption depends on the joint pattern. The indicated consumption is calculated on the basis of our experience, however, without any guarantee.	paving stone format	consumption* (approx. kg/m²)	
		PFM-EP	PFM-PU
	large paving stones		
	16 x 19 x 0,8 cm	4 - 6 kg	4 - 6 kg
	14 x 17 x 0,8 cm	4 - 6 kg	4 - 6 kg
	12 x 15 x 0,8 cm	5 - 7 kg	5 - 7 kg
	small paving stones		
	11 x 10 x 0,8 cm	7 - 9 kg	7 - 9 kg
	10 x 90 x 0,8 cm	8 - 10 kg	8 - 10 kg
	9 x 8 x 0,8 cm	9 - 12 kg	9 - 12 kg
	Mosaic paving stones		
	6 x 6 x 0,8 cm	12 - 16 kg	12 - 16 kg
	5 x 5 x 0,8 cm	13 - 17 kg	13 - 17 kg
4 x 4 x 0,8 cm	16 - 20 kg	16 - 20 kg	
polygonal paving slabs			
50 x 60 x 0,8 cm	1 - 3 kg	1 - 3 kg	
40 x 40 x 0,8 cm	1 - 3 kg	1 - 3 kg	
30 x 50 x 0,8 cm	2 - 6 kg	2 - 6 kg	

NEODUR PFM-EP / NEODUR PFM-PU

PROCESSING

Sub-base

The areas to be grouted must be prepared so that no loosening in the structure or lowering of the paving may be caused by later exposure to stress. The relevant instruction sheets and regulations for the production of paving areas apply. The whole construction must be water permeable. The paving stone flanks must be free from contamination.

- NEODUR PFM-EP: Before the epoxy resin joint mortar PFM EP is slurried, the paving area must be pre-wet, avoiding standing water in the joints.
- NEODUR PFM-PU: Before the polyurethane resin joint mortar is slurried, the paving area must be dry.

Processing PFM-EP

Mix the sand with the hardener (can) in pan type mixer or fill in suitable mixing container and use double stirrer. Mix intensively for minimum 5 minutes until the mixture is homogenous and lump-free.

Then add maximum 10 % water and mix again until the optimal mortar consistency (slight foam formation) is achieved. Then pour the ready mixed NEODUR PFM-EP onto the still moist area and slurry the mortar into the joints using a hard rubber squeegee (at best diagonally). Depending on the weather conditions, the slurried paving area can be cleaned with medium-hard broom after approx. 10 - 20 minutes. After another

5 - 15 minutes, final cleaning of the area with soft broom, smoothing the joints at the same time. Then the remaining film of binding agent is cleaned off with water fog, however, not washing out the fresh joint.

Processing PFM-PU

Mix the sand with the hardener (can) in pan type mixer or fill in suitable mixing container and use double stirrer. Mix intensively for minimum 5 minutes until the mixture is homogenous and lump-free.

Pour the ready mixed NEODUR PFM-PU onto the dry area and work the mortar immediately into the joints using dry hard rubber squeegee (at best diagonally). Work void-free and compact sufficiently. Remove excess mortar with dry, fine broom. Protect the freshly grouted areas for 5 hours from rain, dust and other contamination.

SUPPLEMENTARY HINTS

When covering the area with foil take care that the foil does not lie on and that there are no contact points to the surface (risk of sticking). Depending on how it is processed, the mortar may leave a film on the stone surface. To ensure a smooth processing and to assess the optical appearance, it is recommended to carry out a test area. The viscosity of the resin is temperature depending. At low temperature, the resin will be tough, at high temperature thin-liquid.

SUPPLY

25 kg (24,4 kg + 0,6 kg) plastic container (NEODUR PFM-EP)

25 kg (24 kg + 1 kg) plastic container (NEODUR PFM-PU)

STORAGE

Cool, dry and frost-free. Shelf-life approx. 6 months.

HINTS: NEODUR PFM-EP hazardous goods class: sand component none, hardener component class 8, contains polyamines, resin/sand mixture Xi, no hazardous goods, GGVs class 8; VG III, UN 2735
NEODUR PFM-PU hazardous goods class: sand component none, binding agent (hardener) Xi no dangerous goods.

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.