

MC Screed 2500 HF

Heavy-duty, polyurethane-cement hybrid screed

Product Properties

- Four-component, heavy-duty, HACCP certified, polyurethane 6 - 12 mm floor topping
- Excellent mechanical and chemical resistance (see Chemical Resistance Chart)
- Hard-wearing floor system for high chemical exposure, abrasion and heavily loaded areas
- Thermal shock resistance floor system
- Anti-skid and matt finish offering versatility in performance and aesthetics
- Bacterial and fungal growth resistance
- Solvent-free
- Withstand service temperature between -40 °C to 150 °C

Areas of Application

- Food industry production areas, bakeries, dairies, breweries and butcheries
- Chemical processing areas and containment areas
- Heavy-duty engineering process areas, freeze rooms, warehouses, loading bays and logistics areas
- For kitchens under oily & slippery service conditions

Application

Substrate Preparation/ Mixing

See leaflets "General Application Advice":
"MC-Industrial Floors - Substrate and Substrate Preparation" and "Reactive Resins".

MC Screed 2500 HF consists of four-component - component A (base), component B (hardener), component C (pigmented fillers) and component D (aggregates), supplied in pre-packed quantities. Before mixing, shake component A & B briefly for at least 10 seconds. Pour component A into a clean mixing drum and slowly add component B to the drum, mix for about 1 minute until a uniform consistency is achieved using a slow speed electric mixer. Add component C slowly followed by component D and further mix for 1 minute to achieve a fully homogeneous consistent mortar mixture using a forced action mixer with double paddles.

During the mixing process, it must be remembered that residues of the previous mix at the inner sides of the drum must be discarded and cleaned properly. Failure to do this, will adversely affect the flow and consistency of the mixture.

Anchoring grooves

In order to prevent the outer edges of the coating from curling, anchoring grooves (width and depth are twice the system layer thickness) must be cut into the substrate by diamond cutter, 40 mm away from and parallel to all walls and edges, including columns, doorways, day joints, and drainage areas.

Scratch coat

Scratch coats of MC Screed 2500 MF are applied with steel floats, rubber squeegees and/ or adjustable screeding tools on the prepared substrates.

Application

MC Screed 2500 HF is applied 12 to 24 hours after application of scratch coat, using adjustable screeding tools and/ or steel floats to achieve the require thickness between 5 - 11 mm. Compact and level the surface by using a flat steel trowel.

To achieve a uniformly coloured surface, connecting areas must be applied within 10 minutes.

General Information

Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice": "Reactive Resins".

Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice": "Reactive Resins".

Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating.

Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.

Technical Data for MC Screed 2500 HF

Characteristics	Unit	Value	Comments
Mixing ratio	p.b.w.	3 : 3 : 14 : 12	base : hardener : pigmented fillers : aggregates
Density	g/cm ³	approx. 2.100	-
Pot life	minutes	approx. 25	at 20°C and 50% relative humidity
Resistance to foot traffic after...	hours	approx. 30	at 20°C and 50% relative humidity
Time until full resistance	days	7	at 20°C and 50% relative humidity
Compressive strength	N/mm ²	approx. 53	after 28 days
Tensile strength	N/mm ²	approx. 7	after 28 days
Flexural strength	N/mm ²	approx. 25	after 28 days
Shore D Hardness	-	80	EN ISO 868
Resistance to abrasion	g	approx. 0.080 loss	Taber abrasion test, 1000 cycles
Water absorption	%	0	ASTM C413:2001
Service temperature	°C	> -20 - < 130 > -40 - < 150	at thickness approx. 6 mm at thickness approx. 12 mm
Application conditions	°C % K	> 10 - < 30 < 85 > 3	air, material and substrate temperature relative humidity above dew point

Scratch coat (MC Screed 2500 MF)

Coverage	kg/m ²	approx. 2.200	thickness - approx. 1 mm
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Wearing coat (MC Screed 2500 HF)

Coverage	kg/m ²	approx. 10.500	thickness - approx. 5 mm
	kg/m ²	approx. 12.600	thickness - approx. 6 mm
	kg/m ²	approx. 14.700	thickness - approx. 7 mm
	kg/m ²	approx. 16.800	thickness - approx. 8 mm
	kg/m ²	approx. 18.900	thickness - approx. 9 mm
	kg/m ²	approx. 21.000	thickness - approx. 10 mm
	kg/m ²	approx. 23.100	thickness - approx. 11 mm

Product Characteristics for MC Screed 2500 HF

Cleaning agent	MC-Reinigungsmittel
Colour	MC-PU colours; approx. to RAL-colours range; further colours on request.
Delivery	32 kg pack (Part A 3kg: Part B 3kg: Part C 14kg: Part D 12kg)
Storage	Can be stored in cool (> 5°C - < 25 °C) and dry conditions for 9 months in original unopened packs. Protect from frost!
Disposal	In the interest of the environment, please empty all packs completely & in accordance with local regulations.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 01/25. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.