



DIAMONDCRETE MF standard

Medium duty, self-levelling, seamless polyurethane concrete flooring system, excellent mechanical and chemical resistance, high thermal shock resistance, odourless, solvent free

Application fields

- Food & beverage production facilities
- Dry or moderate wet processing zones
- Warehouse & distribution centres
- Foodstuff preparation
- Dairy production
- Chemical industry

System build-up

- DIAMONDCRETE PU-MF
PU CONCRETE
- DIAMONDCRETE PU-SC
PRIMER



System highlights

3.0 - 6.0 mm System thickness

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|---------------------------------------------------|----------------------------------------|----------------------------------|
| HACCP-certified | Low flammable B_{fi}-s1 | High chemical resistance |
| ISEGA certified for handling foodstuff | High thermal shock resistance | Slight slip resistance R9 |
| Low emission acc. AgBB and other standards | Low odor | Easy to clean |

System pictures





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Application and Consumption

Layer	Product	Consumption (kg/m ²)	Sand broadcasting (kg/m ²)	Thickness (mm)	Application
PU-concrete, self-levelling	DIAMONDCRETE PU-MF	5.5 – 7.6	none	3.0 – 4.0	Pin rake or notched trowel, spike roller
Optional: Levelling layer	DIAMONDCRETE PU-SC	ca. 1.65 per mm	none	1.5 – 2.0	Squeegee, trowel
Primer	DIAMONDCRETE PU-SC or others	ca. 0.8 – 1.0	Optional: QS (0.3-0.8 mm) ca. 0.5 – 0.8	ca. 0.5	Rubber squeegee, roller
Substrate	Cementitious substrates according to the appropriate standards and approvals must be capable of bearing loads and be free of cracks and voids. Pull-off strength ≥ 1.5 N/mm ² . DIAMONDCRETE can be laid on 7-day old concrete (this to a residual moisture content of approx. 6-8% (CM)) or on 2 - 3 days old polymer-modified cement screed. For permanent rising water, please contact our technical service. Substrates with moisture from the backside special measures must be taken or a damp proof membrane must be installed. Substrate preparation e.g. grinding or shot blasting, sweeping and vacuum-cleaning is mandatory. Consumptions are calculated with quartz sands and fillers. Usage of other quartz sands and fillers can cause changes of consumption and technical data.				
Note	Detailed application instructions are available upon request or refer to the technical product data sheet.				

Technical data

Property	Standard	Result
Slip resistance	TRRL pendulum slip test	dry > 70, wet > 21
	DIN 51130	R9
Shore Hardness	EN ISO 868	D 75 after 28 d
Impact resistance	EN 13813	≥ 4 Nm (IR4)
Temperature resistance		- 5 °C - + 60°C (3-4 mm) -15°C - + 70°C (5-6 mm)
Coefficient of thermal expansion	ASTM C531	$5.8 \times 10^{-5}/^{\circ}\text{C}$
Wear resistance (Taber)	EN ISO 5470-1	≤ 25 mg
Compressive strength	EN 196 / ASTM C109	ca. 45 N/mm ²
Flexural strength	EN 196 / ASTM C109	ca. 20 N/mm ²
Tensile strength	EN 196 / ASTM C109	ca. 10 N/mm ²
Adhesive strength	EN ISO 4624	min. 1.5 N/mm ² (depending on substrate quality)
Fire behaviour	EN 13501-1	B _f -s1

Remark: For further information please refer to the product data sheets or contact our technical service. All data are approximate values. Therefore no liability claims can be derived from the system data sheet. As all DIAMONDCRETE data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue by contacting DIAMONDCRETE. All technical information is subject to change without prior notice.

DIAMONDCRETE products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies which can be obtained on request.