DIAMONDCRETE

DIAMONDCRETE *MF standard SR*

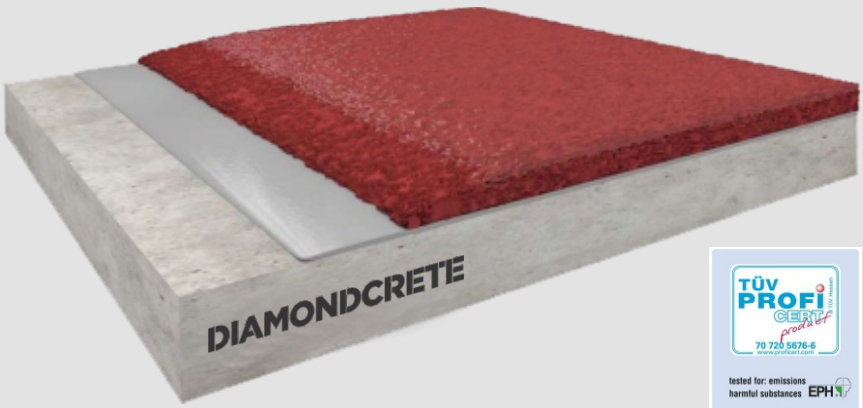
High grade slip resistance, seamless, odourless, solvent free polyurethane concrete flooring system with excellent chemical and thermal resistance, solvent-free, textured matt finish in different colours.

Application fields

- Wet processing zones
- Commercial kitchens
- Foodstuff preparation
- Beverage production
- Fisheries and seafood processing
- Dairy production
- Poultry and meat processing

System build-up

- **DIAMONDCRETE PU-TC** SEALER
- **DIAMONDCRETE PU-MF** WEAR COAT
- **DIAMONDCRETE PU-SC** PRIMER



System highlights

4.0 – 10.0 mm System thickness

- HACCP-certified
- Seamless finish
- High impact resistance
- ISEGA certified
- Thermal shock resistance between -25°C and +105°C
- Early water resistant
- Low emission acc. AgBB and other standards
- Low odor
- Anti-slip surface R10 – R13

System pictures

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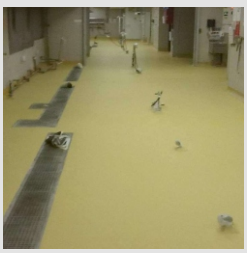
Application and Consumption

Layer	Product	Consumption (kg/m²)	Sand broadcasting (kg/m²)	Thickness (mm)	Application
Sealer	DIAMONDCRETE PU-TC	0.75 – 1.2	none	0.5 – 0.7	Rubber squeegee, paint roller
Wear coat, broadcasted with quartz sand	DIAMONDCRETE PU-MF	4.0 – 7.6	QS (0.3-0.8 or 0.6-1.2 mm) In excess	3.5 – 5.5	Pin rake, notched rake
Optional: Self-levelling layer	DIAMONDCRETE PU-MF	4.0 – 7.6	none	3.5 – 5.5	Squeegee, notched rake
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	Trowel, rubber squeegee
Substarte	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/mm². DIAMONDCRETE can be laid on 7-day old concrete (this to a residual moisture content 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.				
Note	Detailed application instructions are available upon request or refer to the technical product data sheet.				

Technical data



Property	Standard	Result
Slip resistance QS 0.3-0.8 mm QS 0.6-1.2 mm QS 0.3-0.8 mm QS 0.6-1.2 mm Granite 1 – 2 mm	TRRL Pendulum test DIN 51130	 dry > 100, wet > 25 dry > 100, wet > 41 R10 (sanded), R11 R12 V4-V6 R12 V10, R13 V10
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 - + 90°C (5-6 mm) -25°C - + 105°C (8-10 mm)
Coefficient of thermal expansion	ASTM C531	5.8 x 10^{-5}/°C
Wear resistance (Taber)	EN ISO 5470-1	≤ 25 mg
Compressive strength	EN 196 / ASTM C109	ca. 45 - 49 N/mm²
Flexural strength	EN 196 / ASTM C109	ca. 20 N/mm²
Tensile strength	EN 196 / ASTM C109	ca. 10 N/mm²
Adhesive strength	EN ISO 4624	min. 1,5 N/mm² (depending on substrate)
Fire behaviour	EN 13501-1	B_{fl}-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.