

SYSTEM DATA SHEET

TRIONCRETE MF SYSTEM

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	Textile industry	

System build-up

TRIONCRETE MF PU CONCRETE	
TRIONCRETE MF SCRATCH COAT	



System highlights

3.0 - 6.0 mm System thickness

HACCP-certified	Low flammable B_{fl}-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

SUBSTRATE REQUIREMENT

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 $\geq 1.5 \text{ N/mm}^2$. TRIONCRETE system 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 TRION 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 80 after 28 d
Impact resistance	EN 13813	$\geq 4 \text{ Nm}$ (IR4)
Temperature resistance		- 5 °C - + 70°C (3-4 mm) -10°C - + 90°C (5-6 mm)
Coefficient of thermal expansion	ASTM C531	$5.8 \times 10^{-5}/^{\circ}\text{C}$
Anti-microbial	Japanese Industrial Standard JIS Z 2810:2000	After 60 wash cycles 99.9% microbial growth reduction
Low Emission	ISO 16000-3, 6, 9 and EN 16516	fulfilled
Wear resistance (Taber)	EN ISO 5470-1	$\leq 25 \text{ mg}$
Compressive strength	EN 196 / ASTM C109	ca. 50 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 _{1F} -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 TRION data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue (contact us directly) - all technical information is subject to change without prior notice. TRION 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.