

Data sheet

DENSITOP® ST

- a thin flooring with high strength

Densitop® ST is a lightweight and thin flooring and the strongest of all Densitop® products. It is used in areas with high wear and point loadings or where there are particular requirements for flatness and impermeability.

CONSUMPTION	per m ²
Densitop® ST dry mortar per mm thickness	2.38 kg
Densit® Curing Compound	0.25 kg
Densidur 00	3-4 kg

Densitop® ST consists of a high-strength cement-based dry mortar that mixes with water to a free-flowing mortar.

Densitop® ST is applied as a 5–8 mm deep layer onto new or existing base concrete. Various colours are available.

SPECIFICATION

The base concrete is prepared by planing, scabbling, and water saturation.

The Densitop® ST dry mortar is mixed with water in a batch mixer.

The mortar is laid 5–8 mm deep using guide rails.

The surface is spike-rolled.

Finally, the surface is sealed with Densit® Curing Compound or by sand saturation with e.g. Densidur 00.

Technical data

The properties depend upon curing temperature. The data given are typical for curing at 20°C.

Impact strength can be improved by adding steel fibres.

Slip resistance can be improved by sand saturation of the surface.

For further information, please refer to the TECHNICAL INFORMATION section of the catalogue, and the Densitop® Handbook.

PROPERTY	Standard	Value	1 day	7 days	28 days
Compressive strength (MPa)	EN 12190		70	120	165
Flexural strength (MPa)	EN 196		12	18	24
Wear resistance (cm ³ /50 cm ²)	DIN 52108	4-5			
Freeze-thaw resistance	SS 137244	Very good			
Impermeability	DIN 1048	Water penetration < 1 mm			
Coefficient of expansion	EN 1770	$\alpha_m = 9 \cdot 10^{-6} / ^\circ\text{C}$			
Electrical conductivity (Ωm)	Force method	10 ⁵ dry 10 ⁴ wet			
Setting time (hours)	EN 196-3	5-7			
Density (kg/m ³)	EN 12190	2650			
Cr ⁶⁺	%	< 0.0002			



In accordance with EN 13813: CT-C140-F15-A12-A1ff

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