

# Densitop® ST-Q

– a wear layer with unique qualities for high wear and point loading areas

Densitop® ST-Q consists of high strength mineral binder and a mixture of selected hard aggregates. Mixed with water Densitop® ST-Q is pumpable, very easy flowing mortar.

The wear layer is applied in thickness between 7-12 mm. Densitop® ST-Q is suitable for new and old concrete.

Different colours can be obtained by adding selected pigment.



In accordance with EN 13813: CT-C130-F12-A3-A1<sub>fl</sub>

| Consumption                                | per m <sup>2</sup> |
|--|--------------------|
| Densitop® ST-Q dry mortar per mm thickness | 2.35 kg            |
| Densit® Curing Compound                    | 0.25 kg            |
| Densidur 00                                | 3-4 kg             |

## Specification

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

The Densitop® ST-Q dry mortar is mixed with water in a paddle pan mixer.

The mortar is laid in 7-12 mm thickness using level indicator or guide rails.

The surface is spike-rolled.

Finally, the surface is sealed with Densit® Curing Compound .

## 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.

| Properties   | Standard       | Value   | 1 day | 7 days | 28 days |
|--|----------------|---|-------|--------|---------|
| Compressive strength (MPa)                             | EN 12190       |   | 60    | 105    | 140     |
| Flexural strength (MPa)                                | EN 196         |   | 10    | 15     | 20      |
| Wear resistance (cm <sup>3</sup> /50 cm <sup>2</sup> ) | EN 13892-3     | 4-5   |       |        |         |
| Freeze-thaw resistance (kg/m <sup>2</sup> )            | CEN TS 12390-9 | < 0,07  |       |        |         |
| Impermeability   | DIN 1048       | Water penetration < 1 mm                      |       |        |         |
| Coefficient of expansion                               | EN 1770        | $\alpha_c = 9 \cdot 10^{-6} / ^\circ\text{C}$ |       |        |         |
| Fire classification                                    | EN 13501-1     | A1 <sub>fl</sub>                              |       |        |         |
| Setting time (hours)                                   | EN 196-3       | 5-7   |       |        |         |
| Density (kg/m <sup>3</sup> )                           | EN 12190       | 2560  |       |        |         |
| Cr <sup>6+</sup> %                                     |                | < 0.0002                                      |       |        |         |

