TECHNICAL DATA SHEET – DENSIPHALT®

Revised: 05/2018

SEMI-FLEXIBLE AND JOINT-FREE TOPPING WHERE DURABILITY AND WEAR RESISTANCE ARE HIGH PRIORITIES

DESCRIPTION

Densiphalt® consists of an open-graded asphalt, with the voids filled with a high-strength cement-based mortar. Densiphalt® is applied as a 30-100 mm layer, and is laid on an adequate base course such as asphalt, CBM/cement stabilized gravel or standard concrete. Densiphalt® can be coloured in a variety of shades.

CONSUMPTION	PER M²
Densiphalt® per mm thickness	0.55 kg
Densit® Curing Compound	0.20 kg
Densidur 00	3-4 kg

SPECIFICATION

- The base course is sealed with bitumen emulsion.
- The open-graded asphalt is laid (special recipe). Then the dry Densiphalt® mortar is mixed with water in a special continuous flow mixer
- The open-graded asphalt is filled with Densiphalt® mortar and the surface is finished with a rubber scraper.
- Finally, the surface is sealed with Densit® Curing Compound.

CE In accordance with
EN 13813: CT-C100-F10-A15

DENSIPHALT® SYSTEM - MORTAR AND ASPHALT

The properties depend upon curing temperature. The data given are typical for curing at 20°C. Densiphalt® asphalt with 8/11 crushed aggregate.

PROPERTIES	STANDARD	VALUE	1 DAY	7 DAYS	28 DAYS
Compressive strength - MPa [4]	Internal standard		4-7	7-10	8-12
Dynamic E-modulus - MPa	ASTM D-4123	8.000-12.000			
Wear resistance - $cm^3/50\ cm^2$	EN 13892-3	7-8 [5]			
Freeze-thaw resistance - kg/m^2	CEN TS 12390-9	< 0,1			
Impermeability	DIN 18130	Non-permeabel			
Slip resistance	BS 812	50-60; 80 SRT [1]			
Coefficient of expansion	EN 1770	$\alpha_c = 12.5 \cdot 10^{-6}$ / °C			
Fire classification	EN 13501-1	$A2_{fl}$-S1			

[1] Standard and shot-blasted surfaces respectively. [2] Resistance through layer. [3] Surface resistance. [4] Dependent of asphalt type.
[5] Dependent of aggregate type.

DENSIPHALT® - MORTAR

Compressive strength - MPa	EN 12190		50	80	110
Flexural strength - MPa	EN 196		7	12	15
Density - kg/m^3	EN 12190	2200-2250			
Setting time - hours	EN 196-3	7-9			
Fire classification	EN 13501-1	$A1_{fl}$			
Cr^{6+} - %		< 0.0002			

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