



Densiphalt®

– semi-flexible and joint-free topping for areas, where durability and wear resistance are high priorities

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 m ²
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.



In accordance with EN 13813: CT-C100-F10-A1_{fl}

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	$\alpha_c = 12,5 \cdot 10^{-6} / ^\circ\text{C}$			
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}			
Cl ⁶⁺ %		< 0.0002			

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