



Technical Data Sheet

BITEMSEAL

BITEMSEAL is a cationic bitumen emulsion (based polymer bitumen compound) for crack sealing, penetration and surface treatment for generally road road maintenance. BITEMSEAL is an economical solution for maintenance treatment of adding asphalt to an existing pavement surface to improve sealing or waterproofing, prevent further stone loss by holding aggregate in place, or simply improve the surface appearance. It seals fine cracks and voids in the surface course and reduce its aging susceptibility by lowering permeability to water and air. The BITEMSEAL could be spray applied by spray tanker to large areas, or by hand sprayer, squeegee or paint roller to smaller areas at a rate of spread of approx. 3-4 m² per liter, depending upon the surface texture.

Typical applications include carriageways, car parks, cycle paths and footways.



Performances declared

Technical requirements	Unit	Harmonised technical specification	Range value
Binder content	%	UNI EN 1428	48 - 52
Breaking behaviour	None	UNI EN 13075-1	110 - 195
Viscosity (Efflux time 2 mm at 40 °C)	sec	UNI EN 12846	15 - 70
Water effect on binder adhesion	%	UNI EN 13614	≥ 90
Residue on sieving (0,5 mm sieve)	%	UNI EN 1429	≤ 0,1
Storage stability by sieving (7 days storage) - 0,5 mm sieve	%	UNI EN 1429	≤ 0,5
Settling tendency (7 days storage)	%	UNI EN 12847	≤ 10
PH	/	UNI EN 12850	2 - 4
Legante recuperato per evaporazione (UNI EN 13074)			
Consistency at intermediate service temperature: Penetration at 25 °C	0,1 mm	UNI EN 1426	≤ 35
Consistency at elevated service temperature: Softening Point	°C	UNI EN 1427	≥ 60
Cohesion (Force ductility test a 10°C)	J/cm ²	UNI EN 13589 UNI EN 13703	≥ 1
		UNI EN 13398	≥ 75

Application and storage indications:

- The bitumen emulsion can be used at temperature between 20°C and 70°C.
- The surface should be clean and free from dust.
- Weather conditions should be dry and >10°C
- BITEMSEAL can be spray applied by spray tanker to large areas, or by hand sprayer, squeegee or paint roller to smaller areas at a rate of spread of approx. 2-4m² per litre, depending upon the surface texture. It should be allowed to fully break to a black, tack-free state before opening to traffic. A second coat may be applied if required after the first coat has dried.
- It can be stored in tanks, metal drums and plastic containers.
- It is preferable to store the product in a sheltered place and at temperatures above 20°C and below 50°C. Keep it protected from frost.
- Avoid sudden direct heating with hot fluids having temperatures above 100 °C

BITEM S.r.l.

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