

HOT APPLIED SEALANTS

BITAREL® HOT APPLIED SEALANT

EN 14188-1:2004

Description: manufactured by hot-mixing petroleum bitumen with polymer, plasticizers, structuring fillers and special additives.



Purpose: the sealant is designed to fill longitudinal and transverse expansion seams in highway and air field surfaces, as well as joints between cement concrete pavements and asphalt coated road curbs for road climatic zones 3 and 4.

ADVANTAGES

- Compliant with the EN 14188-1:2004 Standard "Joint fillers and sealers. Part I: technical requirements to hot applied sealers"
- High thermal resistance
- High strain capacity
- Waterproof
- High resilience
- No shrinking
- Adhesive to bituminous and cement concrete
- Ageing resistance
- High elasticity at sub-zero temperatures
- Resistance to aggressive environments
- Durability and reliability
- Usability in wide range of temperatures

Basic physical and mechanical characteristics:

No	Item	Requirements according to EN 14188-1-2009 type 2	Test methods
1	Softening point (Ring and Ball method), °C, no less than	85	EN 1427
2	Temperature resistance / change in permeability values at +70°C/168h Cone penetration permeability, 0.1 mm Permeability and recovery (elasticity), %, no more than	40 to 100 60	EN 13880-4
3	Hydraulic resistance, initial and thermal degradation at +60°C, 5h, 75° angle, mm, no more than	3	EN 13880-5
4	Effect on asphalt road coatings at +60°C, 72h	No disruption of adhesion and no oily discharge	EN 13880-9
5	Cohesion Temperature during the test, 0°C. Maximum tensile force, N /mm ²	0.48±0.10	EN 13880-10
6	Adhesion strength at -20°C Adhesion failure; Cohesion failure; Maximum tensile force, N /mm ²	No No 0.75	EN 13880-13
7	Density at 25°C, mg/m ³	In accordance with the manufacturer's declaration	EN 13880-1
8	Cone penetration permeability at 25°C, 5s,150g, 0.1mm, no more than	40 to 100	EN 13880-2
9	Permeability and recovery (elasticity) at 25°C, 75g ball,5s, %, no more than	60	EN 13880-3