



Joint sealants for roads and airfields

Joint sealants are used to absorb movements in the structural joints, repair cracks and seal against moisture and water. Joint sealants are used in many areas.

Following table lists the properties to be accounted by the seller of joint sealants for roads or airfields at the European market.

<i>Hot applied joint sealants (EN 14188-1)</i>	<i>Standard</i>
Softening point, ring and ball, in ° C	EN 1427
Density at 25 ° C, in mg/m ³	EN 13880-1
Cone penetration at 25 ° C, 5 s, 150 g	EN 13880-2
Penetration and recovery (resilience) at 25 ° C, 75 g ball, 5 s	EN 13880-3
Heat stability, change in cone penetration / resilience	EN 13880-4
Flow resistance, initial and heat degradation	EN 13880-5
Resistance to fuel immersion (solubility), change in mass	EN 13880-8
Compatibility with asphalt pavements at	EN 13880-9
Bonding strength	EN 13880-13
Cohesion	EN 13880-10
Cohesion (for cold climate areas)	EN 13880-7
<i>Cold applied joint sealants (EN 14188-2)</i>	<i>Standard</i>
Extrudability 1-Component Sealants	EN 28394
Extrudability 2-component Sealants	EN 29048
Rate of cure	EN 14187-1
Tank freetime	EN 14187-2
Self leveling properties, Type sl	EN 14187-3
Resistance to flow, Type ns	EN ISO 7390
Loss of volume	EN ISO 10563
Change in mass and volume after immersion in liquid chemicals	EN 14187-4
Resistance to hydrolysis	EN 14187-5
Resistance to flame	EN 14187-7
Cohesion	EN ISO 9047
Cohesion (for cold climate areas)	EN 14187-9
Bonding strength	EN ISO 28340
Elastic recovery	EN ISO 7389
Artificial weathering by UV irradiation	EN 14187-8
Adhesion / cohesion properties after immersion in liquid chemicals	EN 14187-6
Preformed joint seals	EN 14188-3
Dimensional tolerances	ISO 3302-1

<i>Preformed joint seals (EN 14188-3)</i>	<i>Standard</i>
Hardness	ISO 48
Tensile strength and elongation at break	EN 14840
Compression Set in air	EN 14840
Accelerated aging in air.....	EN 14840
Stress relaxation in compression	EN 14840
Recovery at low and high temperatures	EN 14840
Ozone resistance.....	EN 14840
Protection against over-extension.....	EN 14840
Function testing for cold climate areas.....	EN 14840

Standards can be ordered from www.sis.se or any other European national standards organization.