



# JOINT SEALANT N1 & N2

Seals Cracks and Joints in Asphalt and Concrete

## Description

Joint Sealants N1 and N2 are BS EN14188 compliant. They are used to maintain horizontal joints and cracks in concrete and asphalt carriageways and airfield pavements and give a black, solid, plastic finish.

**Joint Sealant N1** has 25% elasticity and is especially suitable for high movement joints. **Joint Sealant N2** has 15% elasticity.

Joint Sealant is a hot applied, low extension, polymer modified bituminous sealant with graded extender and adhesion agents. Both grades have very good expansion and contraction qualities. Resilient to ingress of dirt and grit associated with trafficked pavements, both offer very good resistance to plastic flow over a wide range of surface temperatures and to de-icing chemicals. They have excellent adhesion properties on all surfaces.

Areas sealed with Joint Sealants N1 and N2 can be re-opened to traffic after a short curing time of up to 30 minutes.

## Application

- Roads and Highways
- All Airfield Pavements
- Industrial Hardstandings
- Surface Car Parks

## Benefits

- BS EN14188-1 compliant
- High expansion and contraction capabilities
- Excellent adhesion properties
- Fast and simple application
- Apply any time of year
- Quick to cure
- Highly resistant to plastic flow and de-icing chemicals

## Technical Specification

	N1	N2
<b>SPECIFIC GRAVITY</b>	1.1 g/cm <sup>3</sup>	1.1 g/cm <sup>3</sup>
<b>SOFTENING POINT R and B °C</b>	100.5±5	93±5
<b>FLASH POINT °C</b>	>250°C	>250°C
<b>MINIMUM SURFACE APPLICATION TEMP.</b>	>5°C	>5°C
<b>PRODUCT APPLICATION TEMP.</b>	150-180°C	150-180°C
<b>MAXIMUM WIDTH</b>	40mm	30mm
<b>CONE PENETRATION AFTER HEAT AGEING</b>	≤100	≤75
<b>RESILIENCE AFTER HEAT AGEING</b>	≥60	≥55
<b>FLOW RESISTANCE, INITIAL</b>	≤1	≤1
<b>FLOW RESISTANCE AFTER HEAT EXPOSURE</b>	≤1	≤1
<b>ADHESION AND COHESION (CONTINUOUS EXTENSION AND COMPRESSION) MAXIMUM TENSILE STRESS</b>	@ -20°C PASSED	@ 0°C PASSED
	≤0.4	≤0.1

## Installation

### WEATHER CONDITIONS

Application should only be carried to dry surfaces.

### PREPARATION OF THE SURFACE

The defective crack or joint and the surrounding area should be cleaned and dried using hot compressed air. All moribund sealer must be removed. In concrete joints on airfields grit-blasting is recommended.

A bitumen or rubber resin primer is required on concrete surfaces prior to the application of the sealant. (N.B. Primer is NOT required on asphalt surfaces). The function of the primer is to form an adhesive layer that will fuse with the sealant into the joints.



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Installation continued...

The primer must cover the joint flanks completely by forming a film. It is recommended that a strip of about 1cm width is applied on the surface on both sides of the joint.

The primed area must be touch dry before the sealant is applied and free from dust in order to achieve an intensive bonding of the sealant.

## SYSTEM INSTALLATION PROCEDURE

The material should be heated in an indirect heated mixer to an application temperature 150-180°C. The mixer must be equipped with mechanical agitation and an electronic thermostat. The temperature of the material must be regulated at all times to ensure the correct application temperature is maintained. Overheating the material will damage the sealant and greatly reduce its compressive strength.

Curing time is up to 30 minutes depending on the ambient temperature and the width and depth of repair.

During the curing period no disturbance or trafficking of the repair area shall be permitted.

## Packaging and Storage

Packaging: 15kg boxes

Shelf life is up to 2 years if stored in a cool, dry place away from sources of ignition.

## Warranty

The Company warrants that the materials meet stated specifications at the time of dispatch from the factory. Techniques used for the preparation of the repair prior to application are beyond the Company's control, as are the use and application of the materials. The Company shall not be responsible for improperly applied or misused materials. There shall be no other warranties expressed or implied.

