TECHNICAL DATA SHEET

PREFLEX 600

Hot Applied N2 Bitumen Joint Sealant



PREMCRETE

PREFLEX 600



DESCRIPTION

PREFLEX 600 is a hot-applied, low-extension rubber bitumen joint sealant designed for the sealing of movement joints in concrete and asphalt pavements.
The product complies with the requirements of BS EN 14188-1:2004 Type N2 and is specifically formulated to provide a durable, flexible seal capable of accommodating movement whilst preventing the ingress of water and incompressible materials into the joint.
Once heated and installed, PREFLEX 600 forms a tough, resilient seal with excellent adhesion to concrete and asphalt substrates, making it suitable for a wide range of highway, airfield and civil engineering applications.

USES

PREFLEX 600 is specifically designed for the sealing of horizontal movement joints in concrete and asphalt pavements.

Typical applications include:
- Highway construction
- Bridge deck joints
- Airport aprons and taxiways
- Car parks and hard standings
- Concrete pavements
- Asphalt pavements
- Industrial yards
- Service roads
- Infrastructure and civil engineering projects

The product is suitable for joints subject to vehicular traffic and environmental exposure.

ADVANTAGES

- Complies with BS EN 14188-1:2004 Type N2.
- Cost-effective joint sealing solution.
- Excellent adhesion to concrete and asphalt substrates.
- Remains flexible after installation.
- Suitable for highway and airfield applications.
- Resistant to water ingress.
- Accommodates joint movement.
- Easy hot-pour application.
- Suitable for installation at low ambient temperatures.
- Long service life when correctly installed.

PREFLEX 600

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Physical Form	N/A	Plastic Solid
Colour	N/A	Black
Application Temperature	N/A	3°C to 50°C
Flash Point	N/A	>240°C
Density	N/A	1.02 kg/Ltr
Specific Gravity	N/A	1.30
Flow Resistance @ 60°C	N/A	≤4 mm
Movement Accommodation Factor	N/A	13% of Joint Width
Maximum Safe Heating Temperature	N/A	185°C
Penetration	N/A	35 – 105mm
Softening Point	N/A	100°C ±10°C

INSTALLATION PROCEDURE

Surface Preparation

Correct joint preparation is essential to ensure optimum sealant performance.
Joint faces must be clean, dry and free from dust, dirt, oil, grease, curing compounds and any other contaminants which may impair adhesion.Existing failed sealant, debris and loose material should be removed by mechanical means to expose sound, clean joint faces.Where necessary, joints should be blown out using clean, dry compressed air immediately prior to priming and sealing.

Priming

Concrete joint faces should be primed using HYDROPRUFE PRIMER and allowed to dry fully before sealant installation. Asphalt and metal substrates will not normally require priming, although site trials are recommended where unusual substrates are encountered.

Heating

PREFLEX 600 should be heated using a thermostatically controlled indirect-heating melter specifically designed for hot-applied sealants.
The material should be heated to approximately 170°C to achieve the correct application viscosity.
The sealant should not be heated above the maximum safe heating temperature of 185°C.
Prolonged overheating should be avoided as this may adversely affect product performance.

Application

Whilst maintained at the correct application temperature, PREFLEX 600 should be poured directly into the prepared joint using a suitable pouring vessel or pressure-fed application equipment. The sealant should be installed so that complete contact is achieved with both joint faces and the required sealant profile is maintained throughout the joint length. Traffic should not be permitted until the sealant has cooled and hardened sufficiently.

Curing

Allow a minimum of 24 hours prior to opening the sealed joint to full vehicular traffic.
Curing times may vary depending upon ambient temperature, substrate temperature and joint dimensions.

Equipment Cleaning

All tools and equipment should be cleaned immediately following use using PREMCRETE CLEANING SOLVENT or other suitable cleaning products whilst the material remains warm.
Hardened material will generally require mechanical removal.

PREFLEX 600

PACKAGING & COVERAGE



Pack Size

PREFLEX 600 is supplied in 25kg blocks.

Coverage

One 25kg pack will yield approximately 30 litres of molten sealant.
As a guide, one 25kg pack will seal approximately 48 linear metres of joint measuring 25mm wide × 25mm deep.
Actual coverage rates will vary depending upon joint dimensions and site conditions.

STORAGE & SHELF LIFE

PREFLEX 600 should be stored in clean, dry conditions away from direct sunlight and sources of excessive heat.
Store in original unopened packaging and protect from moisture contamination.
When stored correctly under recommended conditions, PREFLEX 600 has a shelf life in excess of 12 months.

HEALTH & SAFETY

Appropriate personal protective equipment should be worn during heating and application of hot-applied sealants.
Suitable gloves, eye protection and protective clothing should be used at all times.
Care should be taken when handling heated material to avoid burns from hot sealant or equipment.
Refer to the separate Material Safety Data Sheet for full health and safety information.

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PREMCRETE