

COLAS PRODUCTS DATA SHEET

JOINTFILL N1



Jointfill N1 is a polymer modified, bituminous, hot applied joint sealant compound. It is designed to be tough, flexible and have good extension properties over a wide range of ambient temperatures. **Jointfill N1** is suitable for joints between concrete and bituminous surfacing preventing entry of water and other materials. It has excellent recovery properties and low temperature flexibility.

Jointfill N1 is not recommended for overbanding due to its lack of skid resistance. **Jointgrip OB** is recommended for overbanding due to its superior skid resistance properties.

WHERE TO USE?

- Carriageways
- Runways
- Motorways
- Footways

PREPARATION

Damaged joints must be repaired using an epoxy mortar approved by Colas. If necessary joints should also be treated by grit blasting. Joints and cracks should always be thoroughly cleaned and dried with a hot compressed air lance in order to remove all moisture and dirt. This process should be carried out immediately prior to the application of **Jointfill N1**.

Concrete joints should be primed with **CP Primer** before applying **Jointfill N1**.

APPLICATION

Jointfill N1 should be heated indirectly and agitated in a purpose-built sealant preheater unit with thermostatic control. Ensuring that the temperature does not exceed 190°C. The heater unit should be air-jacketed or oil-jacketed. The materials should then be pumped in to the joint, or poured at temperatures between 170-190°C using a melter pourer or bucket with a 'V' lip, with the minimum loss of temperature. Joints should be sealed to a level of at least 3mm below the surface.

Application Properties	
Pouring temperature	170°C - 190°C
Safe heating temperature	185°C for 6 hours maximum 190°C maximum temperature

COVERAGE

Weight of Jointfill N1 Sealant to fill 100m joint (kg)						
Depth of joint (mm)	Width of joint (mm)					
	15	20	25	30	35	40
20	35	46	58	70	81	93
25	-	-	72	87	101	116
30	-	-	-	-	122	139
35	-	-	-	-	142	162
40	-	-	-	-	-	185

PACKAGING

Jointfill N1 is available in plastic lined papersacks holding 20kg (nominal). Remove the paper and load into heating equipment.

STORAGE

Keep in dry store under cover.

STANDARDS

Jointfill N1 is manufactured on a purpose-built plant to an ISO 9001 quality system which covers all Colas manufactured products. Under this system all batches undergo rigorous QC testing before being released for use. **Jointfill N1** complies with the specification given BS EN14188-1:2004 Joint Fillers and Sealants – specifications for hot applied sealants for a Type N1 Sealant.

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Test Name	Method	Specification
Softening point (Ring and Ball)	BS EN 1427	≥85 °C
Cone penetration (25°C, 150g, 5s)	BS EN 13880-2	40 to 130dmm
Resilience (25°C, 75g ball, 5s)	BS EN 13880-3	≥60%
Flow resistance (60°C, 5h, 75%)	BS EN 13880-5	<2mm
Extension test: 3 cycles of extension to 75% at a rate of 6mm/hr @ -20°C	BS EN 13880-10	Pass 3 cycles
Density	BS EN 13880-1	Typically 1.015g/cm ³ @ 25°C

SAFETY

SAFETY HANDLING PRECAUTIONS (when hot)

- Wear suitable protective clothing (heat resistant gauntlet gloves, overalls, protective footwear, face visor)
- DO NOT allow water to contact hot material
- DO NOT exceed maximum safe heating temperature
- If molten material contacts skin:
 - DO NOT attempt to remove
 - Immerse affected area in cold running water for at least 10 minutes
 - Seek medical advice without delay

NB: This product is hazardous for transportation when carried at temperatures above 100°C.

For full safety information please request the **Jointfill N1** Safety Data Sheet 06 using the contact information below.

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