

Uniseal 200/90 Coldpour

High performance, pitch free pavement sealant

Description

Uniseal 200/90 Coldpour is a pitch free high performance two part elastomeric sealant specifically developed for sealing contraction and expansion joints in concrete paved areas, roads, bridge decks, airfield runways, taxiways, hard standings, fuelling areas, garage forecourts and transport depots. It is capable of accommodating above average movement and severe climatic conditions.


Standard Compliance: BS5212: 1990 Types N & F and US. Fed Spec. SS-S-200E:1993. BS EN 14188-2.

Advantages

- Contains no pitch or tar.
- Cold applied.
- Self levelling.
- Very high movement accommodation.
- Resistant to oil, fuel, hydraulic fluids.
- Tolerant to climatic conditions.
- Simple application.
- 1:1 mixing ratio by volume.
- Suitable for machine mixing and application.

Guide to Quantities

Joint Size (mm)	Litres per metre run	Metre run per litre
10 x 10	0.10	10.00
13 x 13	0.17	5.92
15 x 15	0.22	4.44
20 x 15	0.30	3.33
20 x 20	0.40	2.50
25 x 20	0.50	2.00
25 x 25	0.62	1.60
30 x 25	0.75	1.33
30 x 30	0.90	1.11

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 13	
EN 14188-2	
System	Two-component (M)
Type	Self levelling (sl)
Class	Class C
Polymer base	Polyurethane
Resistance to deformation	
Elastic recovery	95%
Loss of volume	5%
Durability of water tightness against chemicals	
Change in mass	-18%
Change in volume	-27%
Durability of cohesion against liquid chemicals	
Adhesion/cohesion failure	None
Durability of all mandated characteristics against aging	
Change in tensile modulus	15%
Adhesion/cohesion failure	None



Technical properties of Uniseal 200/90 Coldpour

Properties	Standard	Performance Requirement	Declared Value
Appearance			Pigmented pourable resin
Base Polymer			Polyurethane
Application Temperature			5°C to 35°C
Service Temperature			-20°C to 70°C
Pot Life			> 40 minutes @ 20°C
Tack Free Time	EN 14187-2		5 hours
Cure Time			Will accept traffic in 24 hours. Full cure in 4-5 days.
Viscosity	EN ISO 3219		5500 Cps
S.G.	EN ISO 2811-1		1.4
Loss of volume	EN ISO 10563	≤5%	4.5%
Change in mass and volume after immersion in liquid chemicals	EN 14187-4	<-25% by mass, no increase <30% by volume	-18% -27%
Shore 'A' Hardness			15
Resistance to Hydrolysis Shore 'A' Hardness	EN 14187-5	Change in Shore A hardness <±50%	16.5 (+10%)
Tensile Strength	BS 2782-3		1.0 MPa
Elongation	BS 2782-3		480%
Adhesion - Concrete Adhesion - Asphalt	EN 1542		1.0 MPa 0.6 MPa
Elastic recovery	EN ISO 7389	>70%	95%
Artificial weathering	EN 14187-8	<±20%	+10%
Adhesion/cohesion properties after immersion in liquid chemicals	EN 14187-6 Class C	No failure	No failure
Movement Accommodation Factor	BS 6093		30%

Technical data shown are statistical results and do not correspond to guaranteed minima.

All testing performed at 20°C, unless otherwise stated.

Curing at low temperature may take up to 10 days to fully cure.

(*) Light colours may exhibit colour shade variations on exposure to light.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa



Chemical Resistance

Petrol	Resistant
Diesel Fuel	Resistant
Aviation Fuel	Resistant
Kerosene	Resistant
Dilute Acids	Resistant
Dilute Alkalis	Resistant
Lubricating Oils	Resistant
Skydrol	Resistant
White Spirit	Resistant
Aromatic Solvents	Not Resistant
Chlorinated Solvents	Not Resistant

Application Instructions

Preparation of Substrate:

All joints should be dry, free from dirt, dust and grease. Cleaning should be carried out by wire brushing or grinding. Joint sides must be parallel and straight.

Before positioning a bond breaker ensure that the expansion joint filler is tightly packed and no gaps or voids exist at the base of the slot to be sealed.

Priming

(i) Porous Surfaces:

Apply one coat of Uniseal Primer P2 and allow between 30 minutes and 2 hours to dry. The mixed Uniseal 200/90 Coldpour should be applied when the primer is tack free.

(ii) Non Porous Surfaces:

Apply one coat of Uniseal Primer P2N and allow between 15 minutes and 2 hours to dry.

Note: If application of Uniseal 200/90 Coldpour is delayed for more than two hours after priming, joints should be re-primed.

Mixing and Application

Add the entire contents of part B to part A and mix for a full 5 minutes using a slow speed drill with paddle type stirrer until a completely homogeneous mix is obtained. Mixing is made easier if Part B is added and mixed in two stages. Care should be taken to prevent unmixed material remaining on the sides of the container.

The sealant is then applied to the prepared joint void to finish 5mm below the surface. Use of masking tape will help to obtain a clean finish. The sealant should not be applied at temperatures below 5°C.

For aesthetic purposes very light tooling of the joint material as it gels releases surface bubbles and enhances appearance.

Packaging

Uniseal 200/90 Coldpour is available in 5 litre and 10 litre composite units or 200 litre individual units.

Uniseal Primer P2 is available in 1 and 5 litre cans.

Uniseal Primer P2N is available in 250cc cans.

Cleaning of Tools

Tools should be cleaned with Nuwash solvent as soon as possible after use.

Storage

The storage shelf life is approximately 12 months but the material should be used before the date stamped on the container. Storage temperature range is 5°C to 25°C. Store in cool dry conditions.



Health & Safety

Curing agent and mixed product may cause sensitisation by inhalation. Avoid contact with skin and eyes and wear suitable protective clothing including gloves and goggles. Should accidental skin contact occur remove immediately with resin removing cream and then wash with soap and water. Do not use solvent.

In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

Use only in well ventilated areas.

Primers P2 and P2N are inflammable. Do not smoke and do not expose to naked flames or other sources of ignition. Please refer to our product SDS and www.ISOPA.org for further details on the safe use of this material.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical representatives are available to provide further information and arrange demonstrations.

