Technical Datasheet

Uniseal 200/90 Coldpour

High Performance, Pitch-free Pavement Sealant

Description

High performance two part elastomeric polyurethane 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. As an additional characteristic, Uniseal 200/90 Coldpour is capable of accommodating above average movement and severe climatic conditions.

Advantages

- Available in Black or Grey
- Contains no pitch or tar
- Cold applied
- Self levelling
- Easy to install
- Tolerant to severe climatic conditions
- Very high movement accommodation
- Resistant to oil, fuel, hydraulic fluids

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

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

Substrate Preparation:

All joints should be dry, sound, free from dirt, dust and grease. Cleaning should be undertaken 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

Vertical surfaces should receive one coat of Uniseal Primer P2, then allowed between 30 minutes and 2 hours to dry.

Mixed Uniseal 200/90 Coldpour should be applied when primer is tack free, normally within 2 hours @ 20°C.

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

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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 centipoise
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	BS EN ISO 868		35 ± 5
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 (MAF)	BS 6093		30 %

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

All testing performed at 23˚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

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Mixing and Application

The sealant should not be applied at temperatures below 5°C or if rain is expected.

Use of masking tape will help to obtain a clean finish.

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

Mixed sealant is pour-applied into the prepared joint slot to finish 5mm below the running surface. Monitor sealant level and top up immediately if required.

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

Cleaning of Tools

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

Packaging

Uniseal 200/90 Coldpour is available in 5 & 10 litre twin pack units or 200 litre individual units.

Uniseal Primer P2 is available in 1 & 5 litre tins.

Nuwash is available in 5 & 20 litre drums.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Uniseal Primers P2 is flammable. Use only in well ventilated areas and do not smoke or expose to naked flames or other sources of ignition.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

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

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