



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Uniseal 170

Specification notes

Product: **Uniseal 170**

Supplier:

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Uniseal 170 Data Sheet

Uniseal 170

High Performance Water Industry Polyurethane Sealant

Description

Uniseal 170 is a high performance one part low modulus polyurethane sealant specifically developed for the sealing of contraction and expansion joints in civil engineering and building structures.

Standards Compliance: WRAS approval BS 6920, EN 15651-1, EN 14188: part 2.

Advantages

- One part therefore easy to apply.
- Excellent acoustic ratings.
- Excellent resistance to weathering.
- Permanently flexible.
- Low odour.
- 20% total joint movement


Applications

- Service reservoirs.
- Water treatment plants.
- Raw water storage tanks.
- Waste water treatment works.

Technical Information

Type	Thixotropic Polyurethane	
Colours	Black or Grey	
Application Temperature	5 to 35°C	
Service Temperature Range	-30 to 80°C	
Cure Rate	3mm per 24 hour	
Tack Free Time	30-60 minutes	
Movement Accommodation	20%	
Shore A Hardness	40-45	
Resistance to hydrolysis	45-55	
Chemical Resistance	Weak Acids	Good
	Alkalis	Good
U.V. Resistance	Excellent	
Flash Point	>80°C	

Note: All testing performed at 23°C & 50% RH.

 0074/0071	
Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA 14 000811005	
EN 15651-1 Type F EXT-INT (25LM)	
Polymer base	Polyurethane
Resistance to flow	≤3mm
Loss of volume	≤10%
Adhesion/Cohesion properties after immersion in water	No failure
Durability	Conforms
Fire behaviour	Class E
Dangerous substances	Assessed

Preparation of Substrate

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

Placing of Backer Rod

Following preparation of the joint, place a backer rod or bond breaker tape to regulate the depth of the sealant and prevent Adhesion to the expansion joint filler.



Priming

Apply one coat of Uniseal Primer P2 and allow to dry for between 45 minutes and 2 hours.

Application Instructions

Before starting application, ensure that any primer or cleaner has dried fully. Cut the end of the sachet with a sharp knife and place the sachet into a 600 ml Nufins Barrel Gun. Extrude the sealant into the base of the joint and ensure that full contact is made with the sides. Care should be taken to avoid trapping air within the sealant.

Tooling

Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in the case of vertical joints, lightly tool the sealant into the joint. On completion of the tooling remove masking tape, if used, immediately.

Coverage

Shown in metre per litre of sealant

Depth of Joint (mm)	Width of Joint (mm)					
	10	12	15	20	25	30
10	10	8.3	6.7	5	4	3.3
12		6.9	5.5	4.1	3.3	2.7
15			4.5	3.3	2.7	2.2
20				2.5	2	1.7
25					1.6	1.3

Primer P2 coverage approx. 400m run, at 15mm depth, per litre.

Packaging

Uniseal 170 is available in 12 No x 600ml sachets per box. Uniseal Primer P2 is available in 1 Litre Cans.

Cleaning of Tools

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

Storage

The shelf life is 12 months when stored away from direct sun light in cool dry conditions, in original un-opened cartons. Protect from frost.

Health & Safety

Good hygiene should always be observed. The use of a suitable barrier cream and gloves is recommended. 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.

