

Uniseal 150

One Part Low Modulus Polyurethane Sealant

Description

Uniseal 150 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: EN 15651-1, B.S. 4254

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
	Alkalies	Good
U.V. Resistance	Excellent	
Flash Point	>80°C	

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

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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 approximately 400m run, at 15mm depth, per litre.

Packaging

Uniseal 150 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 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.

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.