

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. Suitable for intimate gap-filling between ductile & composite units.

Standards Compliance: EN 15651-1

Advantages

- One part therefore no mixing & easy to install
- Excellent resistance to weathering
- Permanently flexible
- Low odour
- Total joint movement 25% ($\pm 12.5\%$)


Applications

- Movement joints in concrete, masonry & blockwork
- Perimeter pointing around window & door frames
- WTW, STW, agricultural, industrial & chemical works
- Parapet walls on highway structures
- Harbour walls & coastal defences

Technical Information

Type	Thixotropic polyurethane
Colours	Black or Grey
Application temperature	5 to 40°C
Service temperature range	-20 to 80°C
Cure rate	>2.5 mm per 24 hours
Tack free time	75 minutes
Tensile & Elongation	1.3 MPa & >250 %
Elastic resilience	>70 %
Movement accommodation	MAF 25 %
Shore A hardness	15 - 25
100 % Modulus of Elasticity	0.15 - 0.25 MPa
Chemical resistance	Water, cleaning agents, spillage of oils, hydrocarbons, acids & dilute alkalis
U.V. resistance	Excellent

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

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EN 15651-1 Type F EXT-INT (25LM)	
Polymer base	Polyurethane
Fire behaviour	Class E
Dangerous substances	Assessed
Resistance to flow	≤ 3 mm
Loss of volume	≤ 10 %
Adhesion/Cohesion properties after immersion in water	No failure
Durability	Conforms

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.

Backer Rod Placement

Following preparation of the joint, place a backer rod to regulate the depth of the sealant. Ensure this is packed tightly with no gaps or voids at the base of the slot to be sealed. Prevent adhesion of sealant to the expansion joint filler, using bond breaker tape if required.



Priming

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

Uniseal 150 should be applied when primer is tack free, normally within 2 hours @ 20°C.

Note: If application of Uniseal 150 is delayed for more than two hours after priming, joints should be re-primed.

Primer is not required for intimate gap-filling between ductile & composite units.

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 600ml Nufins Barrel Gun. Carefully 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, dampened 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 tooling, immediately remove masking tape where used.

Cleaning of Tools

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

Consumption

Shown in metre per 600ml of sealant (approximations only)

Depth of Joint (mm)	Width of Joint (mm)				
	4	6	8	12	20
6		16	12	8	5
8			9	6	4
10				5	3

Uniseal Primer P2 coverage approximately 400m run per litre for 15mm depth.

Packaging

Uniseal 150 is available in 20 no. x 600ml sachets per box.

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.