

UNISEAL 170

High performance water industry one part Polyurethane Sealant

Description

Uniseal 170 is a high performance one part polyurethane sealant specifically developed for the sealing of contraction and expansion joints in potable water retaining structures.

Standards Compliance: WRC approval B.S. 6920

Applications

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

Priming

- (i) Porous Surfaces:
Apply one coat of Uniseal Primer P2 and allow to dry for between 45 minutes and 2 hours.
- (ii) Non Porous Surfaces:
Apply one coat of Uniseal Primer P2N and allow to dry for between 45 minutes and 2 hours.

Advantages

- One part therefore easy to apply.
- No mixing required as the product is supplied in a sachet.
- Permanent flexibility even under immersed conditions.

Gun Loading and Application:

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.

Application Instructions

Preparation of Substrate:

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

Placing of Backer Rod:

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

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.

Technical Information

Base Polymer:	Thixotropic Polyurethane
Colour:	Grey
Application Temp:	5°C to 35°C
Service Temp. Range:	-30°C to 80°C
Cure Time (23°C @ 50% RH):	3mm/24 hours
Movement Accommodation Factor (M.A.F.):	20% (Butt joints)
Shore 'A' Hardness:	40 - 45
Tack Free Time:	30-60 mins (23°C @ 50% RH)
Chemical Resistance:	Weak Acids - Good Alkalis - Good
U.V. Resistance:	Good
Flash Point:	>80°C

Storage

The storage life is approximately 12 months when stored at temperatures of between 5°C and 25°C in original unopened cartons. Store in cool dry conditions away from sunlight.

Health & Safety

For full information consult the material COSHH data.

Coverage

Shown in metres 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	3.33
12		6.9	5.5	4.1	3.3	2.7
15			4.45	3.33	2.67	2.23
20				2.5	2	1.67
25					1.6	1.33

Primer P2 - approximately 100 m run at 15mm depth per 250ml.

Cleaning of Tools

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

Packaging

Uniseal 170 is available in 20 No. x 600ml sachets per box.

Uniseal Primer P2 is available in 1 litre cans.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



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