

UNISEAL 250

Two part Polysulphide Sealant.

Description

Uniseal 250 two part polysulphide consists of a formulated blend of liquid polysulphide polymer, plasticisers and fillers which when mixed form a tough flexible rubber like seal which adheres to most common construction surfaces. Used for sealing movement joints in buildings and civil engineering structures including bridges, floors, basements and reservoirs. Uniseal 250 is available in both Gun and Pouring grades.

Standards Compliance: BS4254: 1993 and US Fed Spec TT-S-00227E: November 1969

Advantages

- Excellent adhesion to most substrates.
- Resistant to oils, fuels and common chemicals.
- Tolerant to climatic conditions.
- When cured forms a tough flexible seal.
- High resistance to ageing.
- Long term flexibility.

Application Instructions

Preparation of Substrate:

All joints should be dry, free from dirt, dust and grease. Cleaning should be carried out by wire brushing or grinding.

Before positioning a bond breaker ensure that the expansion joint filler is tightly packed and that no gaps or voids exist at the base of the slot to be sealed.

Priming

- (i) Porous Surfaces:
Apply one coat of Uniseal Primer P1 ensuring complete coverage of the joint. The mixed Uniseal 250 should be applied when the primer is tack free.
- (ii) Non Porous Surfaces:
Apply one coat of Uniseal Primer P1N and allow between 15 minutes and 2 hours to dry.

Mixing and Placement

Mix the entire contents of the tin for a full 5 minutes using a paddle type stirrer until a completely homogeneous mix is obtained. Care should be taken to prevent unmixed material remaining on the sides of the container.

Gun Grade:

The barrel gun should be loaded by placing a follower plate on top of the mixed sealant and applying a steady downward pressure. Whilst applying the sealant maintain an even pressure on the trigger and move the nozzle along the joint at an even pace. To enable the full profile of the joint to be filled it is recommended that the material should protrude from the profile and then be tooled with a rounded spatula.

Pouring Grade:

Add the entire contents of part B to part A and mix for a full 5 minutes using a paddle type stirrer until a completely homogeneous mix is obtained.

The sealant is applied to the prepared joint to finish 5mm below the surface.

Guide to Quantities

Joint Size (mm)	Litres per metre run	Metre run per litre
5 x 10	0.05	20.00
10 x 10	0.10	10.00
20 x 10	0.20	5.00
20 x 15	0.30	3.33
20 x 20	0.40	2.50
30 x 20	0.60	1.67
30 x 30	0.90	1.11
40 x 20	0.8	1.25
40 x 40	1.60	0.62

Technical Information

Base Polymer:	Polysulphide Rubber
Specific Gravity:	1.48 - 1.65
Application Temp:	+5°C to 50°C
Pot Life:	Minimum 2.5 hours @ 20°C
Service Temp:	-40°C to 90°C
Cure Time:	7 days @ 20°C
Water Immersion:	Uniseal 250 must be fully cured before permanent immersion in water.
Flammability:	Cured sealant does not readily ignite
U.V. Resistance:	Good
Movement	
Accommodation:	(Butt) 25% (Lap) 50%

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

Packaging

Uniseal 250 Gun Grade is available in 2.5 litre cans.
 Uniseal 250 Pouring Grade is available in 5 litre cans.
 Uniseal Primer P1 is available in 1 litre cans.
 Uniseal Primer P1N is available in 250cc cans.

Storage

Storage life of six months when kept in dry conditions and at a temperature of between 5°C and 25°C. Keep away from foodstuffs and out of the reach of children.

Health & Safety

Harmful if swallowed; do not induce vomiting and seek medical aid. Avoid contact with skin and eyes and use suitable protective clothing including gloves and goggles.

In case of contact with eyes, wash immediately with clean water and seek medical advice.

Cleaning of Tools

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

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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