

EUNISEAL VERTISEAL

TWO-PART, COLD APPLIED, GUN GRADE POLYSULPHIDE SEALANT FOR SEALING VERTICAL MOVEMENT JOINTS

DESCRIPTION

EUNISEAL VERTISEAL is a cold-applied, two-part polysulphide sealant meticulously formulated for effectively sealing vertical movement and construction joints within diverse reinforced concrete structures. Engineered for durability, flexibility and resilience against environmental elements, EUNISEAL VERTISEAL is proficient at accommodating both shear and transverse movements. Moreover, it exhibits chemical resistance to intermittent spills of diluted acids, alkalis, fuel and oil. Complying with industry standards, EUNISEAL VERTISEAL meets the criteria outlined in BS 4254: 1983 and ASTM C920 Type M, Grade NS, Class 25, Use NT.

USES

EUNISEAL VERTISEAL is utilized to seal movement and construction joints specifically on vertical surfaces in a diverse range of structures, including water-retaining structures, carparks, bridges, airport runways and pavements. Its applications span across reinforcing concrete structures, masonry walls, building facades, sewage treatment works and sea defense works. With its versatile attributes, this product stands out as a reliable option for fulfilling vertical joint sealing needs in a broad spectrum of construction settings.

ADVANTAGES

- The reactor-in-base promotes even dispersion during mixing
- Resilient against environmental pollution, weathering, and immersion
- Able to handle shear and transverse movement effectively
- Forms strong bonds with most prevalent building substrates when paired with the suitable primer
- Does not slump during application.
- Requires low gunning force, making it easy to apply
- Highly elastic, capable of accommodating continuous cycle movement
- Chemically resistant to a broad spectrum of moderate chemicals
- Suitable for both interior and exterior applications.

TYPICAL PROPERTIES

Appearance: Grey caulk
Consistency: Non-sag Thixotropic
Solids Content: 100%
Elongation: 300%
Operating Temperatures: -30°C to 90°C
Movement Accomodation Factor (Joint Width:Depth = 1.5:1): 25%
Shore A Hardness @25°C: 25
Pot Life (@25°C): 90 minutes
Setting time: 24 hrs @ 20°C
Curing Time: 1 week @ 25°C

APPLICATION

Application Conditions: Temperature between 5°C and 50°C.

Surface Preparation

Apply a masking tape to the sides of the joint before priming, to preserve the joint edges from contamination. Apply a single coat of primer optionally with a paintbrush for enhanced adhesion, working it thoroughly into the surface to ensure complete coverage. Brush out well to prevent a thick coating.

Surface	Treatment	Primer
Concrete and Masonry	Surfaces must be clean and dry. Wire brush thoroughly and remove dust and all contaminants.	Polysulphide Sealant Primer
Metals	Remove any corrosion or mill-scale by grit or non porous shot blast, wire brush, grinder or chemical remover.	Polysulphide Sealant Primer II*
Glass and Glazed Materials	Thoroughly surfaces with clean non-porous cloths and oil free surface cleansing agent.	Polysulphide Sealant Primer II*
Coated Surfaces	Where feasible, coatings should be removed and the surfaces treated and primed as above.	Polysulphide Sealant Primer

*Primer is only necessary in cases where the surface is permanently submerged or subjected to long periods of inundation.

MIXING

Mix one complete unit at a time and use it immediately. Utilize a helical mixing paddle at 500 rpm for 5 - 10 minutes, ensuring thorough mixing by moving the paddle through the mass of material until it becomes completely streak-free. Periodically scrape down the sides and base of the container with a palette knife to guarantee the comprehensive blending of the curing agent with the base compound.

Application Instructions

Apply the sealant one hour after priming but within 24 hours, referring to the instructions on Primer tins. Use an even trigger pressure to gun the sealant into joints. Periodically clean the nozzle to prevent contamination. Utilize a wet spatula to compact the sealant into the joint and achieve a smooth, polished finish. Remove any masking tape immediately after applying EUNISEAL Vertiseal. Note that polymer sealants may swell when immersed in water, so recess them below the surface to accommodate this increase in volume.

CONSUMPTION

The approximate linear meter consumption per liter can be determined from the following formula $W \times 1$ Sealant consumption per linear meter = $1000 / (W \times D)$

W: joint width (mm), D: Joint Depth (mm)

CURING

Allow a curing period of 7 days at temperatures of 7°C and above before immersing EUNISEAL Vertiseal in any liquid. During this time, it may be necessary to incorporate drainage in the storage tanks to prevent premature immersion.

PACKAGING

EUNISEAL Vertiseal is supplied in 2.5 L kits.

STORAGE

EUNISEAL Vertiseal should be stored and maintained in a dry place at a temperature between 5°C and 25°C. If the temperature is below 10°C, it is recommended to store the containers for several hours at 21°C

The shelf life of EUNISEAL Vertiseal is 12 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at techsupport@alfaihaengineering.com.

DISCLAIMER

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