

EUNISEAL VERTISEAL

HIGH PERFORMANCE TWO-PART GUN GRADE POLYSULPHIDE SEALANT

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.

EUNISEAL VERTISEAL is proficient at accommodating both shear and transverse movements.

USES

- Precast panels joints.
- Water-retaining structures
- Expansion joints for Carparks, bridges, Airport runways and pavements
- Joints in concrete structures, masonry walls, building facades, sewage treatment works, sea defense work and metal

ADVANTAGES

- Cold applied, UV resistance mastic
- Resilient against environmental pollution, weathering, and immersion
- Does not slump during application
- Highly elastic, capable of accommodating continuous cycle movement
- Chemically resistant to a broad spectrum of moderate chemicals (diluted acids, alkalis, fuel and oil)
- Suitable for both interior and exterior applications

STANDARD

EUNISEAL VERTISEAL meets the criteria outlined in :

- ASTM C920, Type M, Grade P, Class 25
- BS 4254, B5212
- WRAS – BS 6920

TYPICAL PROPERTIES

Appearance	Grey
Solids Content	100%
Density	1.6 kg/Lt
Consistency	Non-sag Thixotropic
Elongation	300 %
Hardness	25
Movement	25 %,
Setting time	18 hrs @ 25°C
Service Temperature	-20% to 80°C
Curing Time	1 week @ 25°C
Pot Life (@25°C)	90 minutes
Operation Temperature	-30°C to 90°C
Chemical Resistance	Dilute acid, Dilute alkali, oil, aviation fuel, kerosene, solvent, sea water

APPLICATION

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.

- **For Concrete and Masonry**

Surfaces must be clean and dry. Wire brush thoroughly and remove dust and all contaminants.

- **Metals**

Remove any corrosion or millscale by grit or non porous shot blast, wire brush, grinder or chemical remover.

- **Coated Surfaces**

Where feasible, coatings should be removed and the surfaces treated and primed as above.

- **Glass and Glazed Materials**

Thoroughly surfaces with clean non-porous cloths and oil free surface cleansing agent.

Note:

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

APPLICATION INSTRUCTIONS

Apply the sealant one hour after priming, but within 24 hours, referring to the instructions on the primer tins. Use 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.

MIXING

Mix the material thoroughly with a low-speed mixer (200-300 RPM) for an interval of 4 minutes, ensuring a homogeneous, consistent, lump-free mixture is reached. Scrape the sides and bottom of the tin and mix again for an extra 2 minutes to guarantee the comprehensive blending of the curing agent with the base compound. Ensure continuous filling of the joint and do not allow time gaps in the application. Allow the sealant to settle in the case of pouring grade and remove the excess from the sides of the joint. For the gun-grade application, apply normal hand pressure with a clean sponge wetted with water to even out the surface of the sealant. Ensure the tapes are removed immediately upon completion of the tooling work.

CONSUMPTION

The approximate linear meter consumption per liter by the following formula = $2500 / (W * D)$,
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 Liters kit.

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

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.