



EUNISEAL PU SEALANT

HIGH MOVEMENT, ONE COMPONENT, NON-SAG POLYURETHANE JOINT SEALANT

DESCRIPTION

EUNISEAL PU SEALANT is a one-component, low modulus, gun-grade, moisture-cure, polyurethane sealant having a high movement capability ($\pm 50\%$) of the original joint width, making it suitable for sealing movement and construction joints. This product is designed with outstanding UV resistance and long-term durability.

USES

EUNISEAL PU SEALANT is a versatile solution for various construction applications. It is suitable for primerless sealing of pre-cast panel joints, as well as sealing joints in building construction, including movement, expansion, and construction joints, as well as masonry joints. Additionally, it is used to seal perimeter joints around windows and doors, facades, claddings, and other structures made of concrete, brick, wood, metal, PVC sections, and more

ADVANTAGES

- Easy application using a caulking gun with a excellent gunning, and tooling properties
- Non-sag and non-staining properties, ensuring a clean and neat finish
- Does not require a primer and exhibits tenacious adhesion to most building materials
- Paintable with non-solvent or water-based paints after curing in static joints, such as around door perimeters
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Resistant to cracking or crazing under UV exposure
- Weather resistant, making it suitable for both external & internal applications
- Provides excellent movement accommodation, accommodating expansions and contractions in joints effectively of $\pm 50\%$

STANDARD

EUNISEAL PU SEALANT classified as: ASTM C920 Type S, Grade NS, Class 50.

TYPICAL PROPERTIES @25°C	
Appearance	White, Grey and Beige (Other Colors Upon Request)
Specific Gravity (ASTM D1475)	1.42 g/ml ± 0.02
Skinning Time @25°C	25 – 35 Minutes
Curing Rate @ 25°C	>2 mm/24 hrs.
Elongation at Break	600 - 800%
Shore A Hardness	25
Movement Accommodation	$\pm 50\%$
Effects of Accelerated Aging @300 hrs. UV exposure	No deterioration
Tensile Strength (ASTM D 412)	1 - 1.3 MPa
Service Temperature	-20°C - 80°C
Application Temperature	5°C - 40°C

APPLICATION

EUNISEAL PU SEALANT may be used in any joint designed in accordance with accepted architectural/engineering practices. While applied on an expansion joint the depth (D) of the sealant should be equal to the width (W) of the joints that are less than 10mm wide.

For wider joints, the width to depth ratio should be 2:1, The maximum width of the joint on which EUNISEAL PU SEALANT can be applied is 25 mm.

Surface Preparation

All substrates should be clean, dry, free from dust, oil, grease and any contaminations that could effect the adhesion thorough wire brushing, sanding, or solvent washing, depending on the contamination. ECA recommends that surface temperatures be below 40°C at the time the sealant is applied.

Application Instructions

EUNISEAL PU SEALANT typically adheres to common construction substrates without primers; however, field adhesion test can be performed on the actual substrate. It is recommended to use masking tape on each side of the joint to maintain clean and uniform joint sides.

Remove the masking tape directly after tooling the sealant.

Where applicable, appropriate joint backing rod such as closed cell polyethylene foam, should be used to provide the correct joint depth and to ensure intimate contact of sealant with joint walls when tooling. Where the depth of joint is insufficient for the use of a backer rod, an adhesive-backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion.

Use a Sausage Caulk Gun for application.

EUNISEAL PU SEALANT is supplied in sausage and can be applied into the joint easily using a Sausage Caulk Gun. Extrude the sealant firmly against the joint surfaces to ensure complete contact. Tooling and finishing should be carried out immediately after the application of the sealant.

COVERAGE

The approximate linear meter consumption per sausage can be determined from the following formula = $600 / (W * D)$

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

Generally, if the joint dimensions are 1x1 cm, then 600 ml of sealant will cover approximately 6 linear meters.

PACKAGING

EUNISEAL PU SEALANT is supplied in 600 mL sausage packages.

STORAGE

EUNISEAL PU SEALANT should be stored and maintained in a dry place at a temperature between 5°C and 25°C.

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

HEALTH AND SAFETY

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

CONTACT

For information regarding the licensee or manufacturer for ECA, 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.