

Grandseal STPE

Silyl-terminated Polyether Sealant

Product Description

Grandseal STPE is a silyl-terminated polyether, one-component, versatile, with well-balanced properties, and is a high performance construction and industrial sealant, with many of the same characteristics as polyurethane sealants. However, Grandseal STPE one-component sealant cures much faster which makes it more desirable in applications where speed of strength development is important.

Customer Benefits

Some of the unique properties of Grandseal STPE sealant are:

- Environment friendly (solvent free); no offensive odors
- Excellent & primerless adhesion to the widest range of substrates including metals, plastics, polystyrene, vinyl, wood, ceramics, concrete, fibrocement, and glass.
- Weather and UV resistance durability; shows no cracking, splitting, discoloration, or adhesion failure even after years of exposure to severe climatic conditions
- Stain & mould resistant; its high molecular weight does not bleed as compared to silicone sealants
- Non-staining
- Paintable
- Fast cure and neutral cure; touch cure in 10-minutes
- Multi-purpose adhesive and sealant

Recommended:

Areas of application include:

- Construction joints in exterior or interior applications
- Structural bonding in vibrating constructions
- Filling and patching gaps and cracks
- Sealing window & door frames and bathroom & kitchen fixtures
- Sealing and bonding needs of automotive industry Cordcell PE backer rod is recommended
- Sealing and bonding polycarbonate roofing
- Joints with movement accommodation factor of +/- 20%
- Sealant requirement of approximately 'Shore A' hardness

Instruction for use

Surface Preparation

The substrates must be clean and sound, free of dust and loose particles. Laitance, oil, grease, mould release agents, curing compound, and traces of prior sealants and adhesives must be removed from surfaces by using wire brush, scabblers or other means.

Application

Use manual or pneumatic caulking or barrel gun. Nozzle tip should be the size that will ensure sealant application in a single pass without the sealant smearing over joints. Mask edges of joints with masking tape.

Cut open one end of a sachet of Grandseal STPE preferably at the wire clamped end, and slide inside a caulking or barrel gun with the sachet's open end towards the nozzle. Position the gun's nozzle at an angle almost inside the joint and start to fill evenly with sealant without trapping air. For smooth finish, tool off with a spatula wetted with soapy solution of dilute detergent.

Remove masking tape, if any, immediately after tooling and

Joint Sealant and Filler

finishing.

NOTE: Application is recommended during cooler times of the day or at +5 °C up to +30 °C.

Joint dimensions:

Minimum width 5mm
Maximum width 30mm
Minimum depth 5mm
Width to Depth ratio of 2:1

For optimum joint sealant performance, a bond breaker may be used in order to avoid three sided adhesion. For joints with depth greater than 5mm, a compatible Grandfoam is used.

Curing

Generally, touch cure of Grandseal STPE is after 10-minutes, and cure rate is at 2mm to 3mm after 24-hours (curing time may depend on temperature and humidity).

Cleaning

Uncured Grandseal STPE maybe cleaned from tools and substrates with mild solvents. Cured sealant maybe mechanically removed with sharp knife or blade.

Estimating Data

The following formula may be used for computing sealant requirement:

Length of joint in linear meter

packaging in ml / (width in mm X depth in mm)

Example Given

1. Length of joint: 20 meter
 2. Grandseal STPE packaging: 500 ml
 3. Joint width: 10 mm
 4. Joint depth: 5 mm
- Computation:
- 20**

500 / (10 X 5)

Answer: Grandseal STPE sealant required = 2 sachets

Note: When computing for Grandseal STPE requirement, please make provision or allowance for wastage factors.

Packaging

Grandseal STPE is available in 500ml sachet (or sausage). 15kg and 25kg maybe imported upon request with 2-months advanced notice.

Storage

Storage stability; excellent 12-months shelf life although sealant must be protected from moisture and direct sunlight

Fire

Grandseal STPE is nonflammable.

Health and Safety

Although Grandseal STPE does not contain any hazardous ingredients, avoid prolonged contact with skin. Follow normal hygiene practices and wear gloves.

Important Note

The information contained in this leaflet is published to the best of our knowledge and is supposed by current available data. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. Our guarantee is therefore limited to the quantity of the supplied material.

Grand Aces Ventures Inc.

Unit 3 & 4, 138-142 M.L Quezon Avenue, Brgy. San Isidro, Angono, Rizal, Philippines
Tel. Nos. +63 (2) 8451-0160, 8571-6021, 8451-0915 Fax No. +63 (2) 8571-6023
Mobile No.: +63 908-866-4908
Email: grandaces@grandacesventures.com
Website: www.grandacesventures.com
Facebook: www.facebook/grandaces

Revision Date: June 28, 2021