



Vetoflex PU781

Multi-component polyurethane joint sealant

(Formerly known as Saveto PU2)

Uses

- Primerless sealing pre-cast panel joints and expansion joints.
- As a general elastic adhesive for materials with dissimilar properties and thermal expansion coefficients.
- Movement and static joint sealing in various construction industry requirements.

Product Description

Vetoflex PU781 is a multi-component, high-performance, elastomeric, chemically-curing, multi-purpose polyurethane sealant. Once cured, the product forms an elastic, joint sealant with high mechanical properties, abrasion resistance, and high extensibility to withstand long-term dynamic movement. Vetoflex PU781 is available in pouring and gun grades for ease of application as well as being available in 8 standard colors with possibility of custom colors upon request.

Advantages

- Weather resistant, suitable for External & Internal applications.
- Easy application.
- Paintable with non-solvent or water-based paints after curing in static joints (i.e. around door perimeters).
- No crack or craze under UV exposure.
- Non-sag and non-staining
- Does not require primer and exhibits tenacious adhesion to most building materials.
- Excellent movement accommodation.

Design Criteria

Vetoflex PU781 use should follow standard concrete joints practices, sealants need either backing rod or joint breaker tapes to prohibit 3 point adhesion and allow for movement freedom in desired design. Saveto recommends the use of ACI 224.3-95 (re-approved 2013) for joint design.

Standards Compliance

- ASTM C920 Type M, Grade NS, Grade P, Class 25, use T, NT, A and M
- ISO 11600, F 25 LM
- TT-S-00227E Class A, Type I, II

Technical Data

Vetoflex PU781	PG	GG
Movement capability, % (ASTM C719)	± 25	± 25
Hardness, Shore A (ASTM D2240)	25-35	20-30
Tensile Strength, psi (ASTM D412)	>100	>120
Elongation, % (ASTM D412)	>220	>250
Shrinkage %	Nil	Nil
Adhesion in peel to concrete, N/mm (ASTM C794)	>25	>25
Tack-free time, hours ASTM C679	< 24	< 48
Stain and Color change (ASTM CS10)	None	None
Extrusion rate and Application life (ASTM C603)	Pass	Pass
Bond durability on concrete (ASTM C719)	Pass	Pass
Service temperature (from -15°C to +80°C)	Pass	Pass
Working Time (minutes) @ 25°C	120	120
Time to finish curing	7 days	7 days
Resistance to general chemicals	Good	Good

Usage Instructions

Joint Preparation

Clean all joint surfaces and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surfaces, remove any laitence and expose aggregate by light scabbling or grit-blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser.

Any expansion joint filler must be checked to ensure it is tightly packed and no gaps or voids exist at the base of the sealing slot before positioning a bond breaker. The use of a bond breaker is not required in expansion joints containing cellular polyethylene joint filler, backing rod (Vetoflex PBR). For construction or contraction joints a bond breaker tape or back-up strip must be used. Where a particularly neat finish is required, mask the face edges of the joint before sealing and remove immediately after tooling is completed.

Priming

The use of a primer is generally not required when using Vetoflex PU781. However where hard to bond substrates such as PVC or where highly porous substrates are in question, please contact Saveto local office for assistance on suitable primer choice.

Mixing

The components of Vetoflex PU781 are supplied in the correct mixing ratio. Add the entire contents of the color pack and hardener component into the base container and mix together thoroughly for three minutes using a slow speed drill (300 to 500 rpm) fitted with a suitable mixing paddle. Ensure any settlement is thoroughly dispersed.

The sides of the container should then be scraped down to ensure that any unmixed components do not remain. Mixing should then continue for a further 2 minutes.

Application

The mixed Vetoflex PU781 can be poured directly from the mixing container by compressing the sides to form a pouring lip. Pour into the prepared joint to the required level, should the joint width prohibit direct pouring from the container, the mixed material can be poured into a Vetoflex Barrel gun and applied to the joint.

LEGAL DISCLAIMER

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It may be necessary after a few minutes to top up the level of the sealant after it has flowed into all joint irregularities. Finally, strip of any masking tape that may have been used.

When using gun grade, follow the same application procedure while using a bulk gun, the bulk gun can be filled using a follower plate.

Cleaning

Vetoflex PU781 should be removed from tools, equipment and mixers with Vetonit Solvent XX400 immediately after use. Hardened material can only be removed mechanically.

Packaging & Coverage

Product	Pack Size
Vetoflex PU781 - Pouring Grade	4 Liter Kits
Vetoflex PU781 - Gun Grade	2.5 Liter Kits

Coverage		
Joint Width (mm)	Joint Depth (mm)	Length Filled / Kit (m)
10	8	50
15	8	30
20	10	17
25	12	11
30	15	9

Stated consumptions data are for general guidance. Actual consumption depends on the nature of substrate, method of application and wastage.

Shelf Life & Storage

Original sealed container of Vetoflex PU781 has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°C.

Health & Safety

Vetoflex PU781 is not classified hazardous. Contains isocyanate.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.