

PRODUCT DATA SHEET

Urosecal 45V



PRODUCT PROFILE

GENERIC DESCRIPTION

Low Durometer Vertical-Grade Elastomeric Sealant

COMMON USAGE

Epoxytec Urosecal 45V is a two component, 100% solids, low durometer (45-55 Shore A) elastomeric sealant serving as a high build elastomeric coating or joint sealing system for vertical and overhead use. Once cured, the material forms a high quality sealant with 200% tensile elongation. Urosecal 45V is ideally suited for indoor and outdoor use on concrete, steel, and most construction materials. Urosecal 45V produces a flexible, long-lasting film with terrific adhesion, cohesion, and elasticity that resists deterioration caused by weathering, stress, movement, water, oils, and many chemicals. Often used as a joint system in non-immersive vapor pits, manholes, and pipe.

COLORS

Gray

FINISH

Semi-gloss

COATING SYSTEM

PRIMERS

Self-priming

SURFACE PREPARATION

CONCRETE

Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Prepare the concrete by abrasive blasting, high or ultra-high pressure water cleaning, and/or approved mechanical methods to achieve clean, sound, and profiled concrete in accordance with SSPC-SP13/NACE No. 6 "Surface Preparation of Concrete." A minimum ICRI profile of CSP 4 or higher shall be achieved with a minimum pH 9. **Note:** Epoxytec Urosecal 45V can be applied direct to concrete (DTC), self-priming. However, should an abnormal or conditional situation exist (i.e. outgassing, MVT, etc), primers and/or resurfacers

(although optional) can assist, and may be recommended. Contact your Tnemec Representative for more information.

STEEL

Before preparing steel, please inspect and remove oil, grease, or other contaminants. Abrasive blasting (or other approved mechanical methods) must be used in order to achieve a clean surface in accordance with SSPC-SP6/NACE No. 3 "Commercial Blast Cleaning" and a minimum profile of 3.0 mils (75 microns).

ALL SURFACES

Surface must be clean, sound, and profiled. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and disintegrated materials from the surface, in order to achieve a clean and profiled surface. Methods outlined herein are a basis of design for generalized guidance. Refer to epoxytec.com for additional system design detail and guidelines; please consult with your Tnemec representative on other specific design considerations.

TECHNICAL DATA

VOLUME SOLIDS

100%

RECOMMENDED DFT

1/4" (250 mils) (minimum) to 1" (1000 mils) (maximum) per pass.

CURING TIME

Temperature	To Touch	To Handle
80°F (27°C)	5 hours	48 hours

VOLATILE ORGANIC COMPOUNDS (VOCs)

0.00 lbs/gallon (0 grams/litre)

THEORETICAL COVERAGE

As a Coating: 1,604 mil sq ft/gal (39.3 m²/L at 25 microns).

As a Joint Sealant: See APPLICATION for coverage rates.



TECHNICAL DATA *(cont.)*

NUMBER OF COMPONENTS

Two: Part A (resin) and Part B (amine)

MIXING RATIO

By volume: 3.5 (Part A) to 1 (Part B)

PACKAGING

	Part A (partially filled)	Part B (partially filled)	Yield (mixed)
Small Kit	5-half-gallon cans	5-16 oz bottles	2.5 gallon (9.46 L)

NET WEIGHT PER GALLON

9.67 ± 0.25 lbs (4.39 ± 0.11 kg) (mixed)

STORAGE TEMPERATURE

Prior to use, this product should be conditions between 65°F and 85°F (18°C and 29°C).

SHELF LIFE

6 months at recommended storage temperature.

FLASH POINT - SETA

N/A

HEALTH AND SAFETY

This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. **Keep out of the reach of children.**

APPLICATION

COVERAGE RATES

The following table represents the number of linear feet filled by one gallon for joints of various widths and depths:

Joint Depth	Joint Width						
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
1/4"	308	205	154	122	102	88	77
3/8"	-	136	102	82	68	58	51
1/2"	-	-	77	61	51	46	38
5/8"	-	-	-	49	41	37	30
3/4"	-	-	-	-	34	31	25
7/8"	-	-	-	-	-	25	22
1"	-	-	-	-	-	-	19

MIXING

Proper mixing is achieved using a heavy duty, slow speed drill, and a mixing paddle such as a "Jiffy Mixer." Two to three minutes of mixing is adequate to ensure a homogeneous mix. Mix units in entirety.

THINNING

Do not thin.

APPLICATION

Where possible Uroseal 45V should be applied when the joint is at its median opening so as to obtain the greatest efficiency with subsequent joint movement. The dimension of the joint to be sealed at the bottom with a backing rod and in relation to service conditions. Uroseal 45V is supplied in a gel consistency. It can be worked by hand directly from the container, transferred to smaller containers, or applied by bulk caulking gun or pumped.

APPLICATION EQUIPMENT

Apply by trowel, spatula, or other hand-applied methods.

SURFACE TEMPERATURE

Minimum 55°F (13°C) Maximum 130°F (54°C)

APPLICATION (cont.)

CLEANUP

Clean with Epoxytec Cut 5 solvent, Tnemec No. 42 Thinner, or MEK.

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