

POLYPRO® Sealant 25-000

High Body Urethane Modified Epoxy Joint Filler

APPLICATION CHARACTERISTICS

STORAGE: Materials should be stored in original un-opened containers indoors between 65°F (18°C) and 90°F (32°C) and at or below 50% RH.

SHELF LIFE: Un-opened containers 1 year from date of manufacture.

PACKAGING KITS/ PART NUMBERS:

Volume Mix Ratio: 1.5A, .25B, .125C

POLYPRO® SEALANT 25-000
1.88 gallon kit 135LF at 1/2" x 1/2"
Sealant 25-000-A/2
Sealant 25-000-B/Q
CP-U####/P

OPTIONS:

Color packs designated as CP-U####/P can be used with POLYPRO® SEALANT 25-000. Many standard and custom colors are available; please refer to the price list for available colors. It is important to have a color consistent between the mortar and joint.

LIMITATIONS:

Contamination and surface defects (fisheyes): If contaminates of oils, silicones, mold release agents and/or others are present, Application of POLYPRO® SEALANT 25-000 may fisheye or crawl away from the surface. Surface contaminates should be removed with a suitable detergent prior to application. Solvent cleaning of silicone contaminates may make the situation worse; please contact the lab for additional recommendations. POLYPRO® SEALANT 25-000 May amber over time from UV exposure.

POLYPRO® SEALANT 25-000 may have a slight stick tack to the surface when curing. If the desire is to place the floor into service quickly, sanding the surface of the fresh joint with a fine clean play sand will help keep the fresh joint clean and tack free.

POLYPRO® SEALANT 25-000 is a two-component, flexible urethane modified epoxy high body joint filler. Packaging is available in pails for machine or hand mixing. POLYPRO® SEALANT 25-000 has superior chemical resistance, thermal shock resistance making it ideal for use as a control joint filler for concrete joints and epoxy mortar as well as standard concrete horizontal surface cracks.



APPLICATION

MIXING: Pour the POLYPRO® SEALANT 25-000-B/Q into the POLYPRO® SEALANT 25-000-A/2 and mix with a Jiffy® Mixer Blade model ES. While mixing, add the color pack (Protect CP-U####/P) and continue to mix for 3 minutes.

APPLY POLYPRO® SEALANT 25-000: at a rate of 1/4"-1" to the joint tooling in with a mason trowel or by using a caulk gun/dispensing pump. Do not over fill as joint material will over flow onto the surface of the floor.

CURING (DRYING): Allow the POLYPRO® SEALANT 25-000 to cure for a minimum of 24 hours after application at 75°F (24°C) and 50% RH before and applying the other coatings as a top coat or opening to traffic. Only open the floor to light traffic after sufficient cure, allow more time for low temperatures and higher humidity or for heavier traffic. Full coating properties may take up to 7 days to develop.

TECHNICAL SUPPORT

For application questions, please contact your VISURON TECHNOLOGIES, INC. salesman or technical service.

DISPOSAL

Dispose in accordance with federal, state, and local regulations.

USES

POLYPRO® SEALANT 25-000 protects joints in industrial floor joints subject to heavy traffic and abuse from trucks, cars, forklifts and steel-wheeled carts. Used to fill, rebuild and repair control and construction joints in concrete and polymer flooring mortars, as well as patching random cracks, patch gouges, holes and surface defects. POLYPRO® SEALANT 25-000 is flexible, allowing for limited crack movement protecting concrete and polymer flooring edges from spalling under heavy loads.

ADVANTAGES:

- Low Odor
- High chemical resistance
- Excellent impact and abrasion resistance
- Flexible, 600% elongation
- Remains flexible
- Resists hot water dumping up to 250°F
- Resists staining and major chemical spills of cleaning and industrial chemicals
- Meets USDA requirements
- Complies with VOC regulations for Industrial Maintenance Coatings in the OTC and CA.

MATERIAL PROPERTIES*:

Properties	Test Method	Results
Flash Point	ASTM D3278	≥215 °F (102°C)
Volume Solids (mixed resin)	ASTM D2369	100 %
Mixed Viscosity (resin only)	ASTM D2196	> 100,000 cPs
Set Time-Tack Free	70 Degrees-1/4 x 1/4 "	6-8 Hours
Cure Tim-Traffic	70 Degrees-1/4 x 1/4 "	12-24 Hours
VOC-Volatile Organic Compound	ASTM D3960	0 g/l

CURED PROPERTIES*:

Properties	Test Method	Results
Hardness	ASTM D2240	70 Shore A 50 Shore D
Tensile Strength	ASTM D638 Type V Micro	1800 PSI
Tensile Elongation	ASTM D638 Type V Micro	600%
Adhesion to concrete	ASTM D4541	350 PSI concrete failure
Application Thickness		1/4" x 1/4" to 1" x 1"

*Properties and results are based on laboratory testing at 72°F (22°C) %50 RH, theoretical calculations and estimates. Typical properties, as stated, are to be considered as representative of current production and should not be treated as specifications.

COVERAGE RATE:

Linear Feet per Gallon (Approximate)

Inches	1/4	1/2	3/4	1
1/4	308	154	103	72
1/2	154	72	51	38
3/4	103	51	38	26
1	72	38	26	19



VISURON
TECHNOLOGIES, INC.

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RECOMMENDED APPLICATION

APPLY POLYPRO® SEALANT 25-000: at a rate of 1/4"-1" to the joint tooling in with a mason trowel or by using a caulk gun/dispensing pump. Do not over fill as joint material will over flow onto the surface of the floor. Allow the **POLYPRO® SEALANT 25-000** to cure for a minimum of 24 hours after application at 75°F (24°C) and 50% RH before and applying the other coatings as a top coat or opening to traffic. Full coating properties may take up to 7 days to develop.

CHEMICAL RESISTANCE:

POLYPRO® SEALANT 25-000	1 Day	7 Days
ACIDS, INORGANIC		
10% Hydrochloric	E	E
10% Nitric	E	E
50% Phosphoric	G	F
10% Sulfuric	G	F
ACIDS, ORGANIC		
10% Acetic	G	F
10 % Citric	G	F
Oleic	N/A	N/A
ALKALIES		
10% Ammonium Hydroxide	E	E
50% Sodium Hydroxide	E	E
SOLVENTS		
Ethylene Glycol	E	G
Isopropanol	F	F
Methanol	P	P
d-Limonene	E	E
Jet Fuel	G	G
Gasoline	P	P
Mineral Spirits	F	F
Xylene	P	P
Methylene Chloride	N/A	N/A
MEK	N/A	N/A
PMA	N/A	N/A
MISCELLANEOUS		
20% Ammonium Nitrate	E	E
Brake Fluid	F	P
Bleach	E	E
Motor Oil	E	E
Skydrol®500B	F	P
Skydrol®LD4	F	P
20% Sodium Chloride	E	E
10% TSP	E	E

Legend: E- Excellent (Not Effected) - Recommended
G-Good (Limited Negative Effect) - Short Term Exposure
F-Fair (Moderate Negative Effect) - Not recommended
P-Poor (Unsatisfactory) - No Resistance to Exposure

INSPECTION AND APPLICATION:

Caution! Follow all precautions and instructions prior to installation.

CHECK THE SUBSTRATE CONCRETE: Substrate concrete must be free of curing membrane, silicate surface hardener, paint, or sealer and be structurally sound. If you suspect the concrete has been treated or sealed, prepare substrate for complete removal of treatment.

CHECK FOR MOISTURE: Concrete must be dry before applications of this floor coating. Test concrete for moisture vapor transmission (MVT) using calcium chloride testing ASTM F1869 or in-situ RH testing ASTM F2170. Do not exceed a maximum result of 3 pounds per 1000 sq. ft. over 24 hours or a value below 70% RH (internal concrete humidity).

EXCLUSION: Testing for MVT is critical, however it does not guarantee against future problems. If there is no vapor barrier or the vapor barrier is damaged, this too can contribute to floor failure. Contamination to concrete from oils, chemicals, excessive salts or Alkali Silica Reaction (ASR) may also contribute to floor failure.

CHECK THE TEMPERATURE AND HUMIDITY: During the application and cure of the coating, the substrate temperature, material temperature and room conditions should be maintained between 65°F (18°C) and 90°F (32°C). Relative Humidity (RH) should be limited to 30-80%. DO NOT apply coatings unless the floor temperature is more than five degree over the dew point.

APPLICATION EQUIPMENT:

Protective equipment and clothing as called for in the MSDS
Jiffy® Mixer Blade model ES
Clean container for mixing material
Low speed high torque drill motor

PREPARATION:

Surface dirt, grease, oil and contaminates must be removed by detergent scrubbing and rinsing with clean (clear) water.

Existing Joints: The best performance is achieved with a chase cut of existing cracks.

New Joints: Cut the joint to the desired thickness and depth. Deep joints should be filled with dry sand or backer rod. Do not wet cut. Cut Joint must be completely dry.

JOINT SELECTION: POLYPRO® SEALANT 25-000 is ideal for filling control joints. Construction joints may be filled with POLYPRO® SEALANT 25-000 but might need to be re-built and re-cut depending on conditions. Isolation or expansion joints must be filled with a flexible material designed for expansion and should not be coated over.

PRIMERS: POLYPRO® SEALANT 25-000 does not require a primer, but epoxy primers can be used.

MATERIAL SAFETY DATA SHEET (MSDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

MAINTENANCE GUIDELINES:

Allow filler to cure at least one day before cleaning by mechanical means (IE: sweeper, scrubber, disc buffer).

Use only neutral non butyl cleaning detergents on your joint filler. Test any new cleaning product on a non-conspicuous area prior to using to avoid damage to the filler

CARE: Increased life of the floor will be seen with proper maintenance and will help maintain a fresh appearance of your new VISURON TECHNOLOGIES, INC. floor. Regularly sweep your new floor as ground in dirt and grit can quickly dull the finish thus decreasing the life of the coating. Spills should be removed quickly as certain chemicals may stain and can permanently damage the finish.

Only soft nylon brushes or white pads should be used on your new floor coating. Premature loss of gloss can be caused by hard abrasive bristle Polypropylene (Tynex®) bushes. Use only neutral non butyl cleaning detergents on your floor coating. Test any new cleaning product on a non-conspicuous area prior to using to avoid damage to the floor.

CAUTION: Heavy objects dragged across the joint can scratch and damage the filler. Avoid gouging or scratching the surface. Pointed items or heavy items dropped on the floor may cause chipping or concrete pop out damage.

REPAIR: Repair gouges, chip outs, and scratches as soon as possible to prevent moisture and chemical under cutting and permanent damage to the floor coating.



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