



#601 Polyurethane Caulk

Product Information and Technical Data

#601 Polyurethane Caulk is a one-part, gun-grade, non-staining, polyurethane sealant that cures at ambient temperature to a firm, flexible, tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

PRODUCT DESCRIPTION

Composition: Polyurethane-based joint sealant.

Basic Uses: For sealing and caulking all joints subject to contraction and expansion. Bonds to concrete, wood, glass, and metal.

Limitations: **#601 Polyurethane Caulk** cures in contact with moisture so open containers should be consumed within one or two days of opening. Application surfaces must be completely free of foreign matter. **White color may fade slightly when exposed to UV or fluorescent light for long periods.**

Shelf Life: 1 year at 77 deg. F (25⁰C) and 50% R.H. in unopened containers.

Colors: Concrete Grey, Aluminum Grey, Limestone, White, Tan, Off-White.

Sizes: Available in 5-gallon pails, 10.5 oz. Cartridges and 20.3 oz. (600ml) sausages.

Standard: Meets Federal Specification TT-S-230c. Type II, Class A. ASTM C-920-87-97, Type S, Class 25, Use NT, M, and A.

INSTALLATION

Joint Design: Suitable for all properly designed joints following accepted engineering practice. Joint width should be a minimum of 4 times the anticipated movement. Maximum thickness not to exceed .5"

Surface Preparation: All joints must be absolutely clean. For most concrete, sandblasting is recommended. All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed. For non-porous surfaces such as glass, metal, etc., cleaning with M.E.K. or Toluene is recommended. Closed-cell polyethylene rod or polyurethane foam is recommended as a joint-filler and back-up material. Fillers treated with bituminous products, grease or oil, should not be used. Where present, they must be removed or separated by vinyl tape or polyethylene film. Some surfaces may require GlobalShield Primer.

Application: Apply by caulking gun, hand or pneumatic, or pour from container. Bulk sealant may be applied by pumping equipment, trowel or putty knife. Tool firmly onto joint faces assuring positive contact to joint sides. Best if applied at temperatures below 100°F.

Product Warranty: All products proven to be defective in manufacture will be replaced at no charge. Since the use of these products is beyond our control, we cannot assume any risk or liabilities for results obtained, nor accept damage in excess of the purchase price of these products.

Maintenance: If **#601 Polyurethane Caulk** were damaged without joint contamination, it may be repaired by removing the affected area and resealing with **#601 Polyurethane Caulk**.

		WIDTH OF JOINT						
DEPTH OF JOINT		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
	1/4"	308	205	154	123	102	88	77
	3/8"	-----	136	102	82	68	58	51
	1/2"	-----	-----	77	61	51	44	38
Linear Feet Per Gallon of #601 Polyurethane Caulk								

WIDTH OF JOINT

DEPTH OF JOINT	mm	6.4	9.5	12.7	15.9	19	22.2	25.4
	6.4	24.8	16.5	12.4	9.9	8.2	9.1	6.2
	9.5	-----	10.9	8.2	6.6	5.5	4.7	4.1
	12.7	-----	-----	6.2	4.9	4.1	3.5	3.0
	Linear Meter Per Liter of #601 Polyurethane Caulk							

TECHNICAL DATA

Property	Method	Result
Consistency Type II	ASTM C-920	Non-Sag
Service Temperature Range		-40°F(-40°C) to 180°F (82.2°)
Tack free Time at 77°F (25°C); 50% R.H.	Fed. Spec. TT-S-230c	16-24 hrs.
Movement Capability	ASTM C-719	+25%
Tensile Strength at 77°F(25°C)	ASTM D-412	250 psi
Rheological (sag in vertical displacement at 120°F (49°C))	ASTM C-639	No Sag
Extrudable	ASTM C-603	2 seconds
Weight Loss, after heat aging	ASTM C-792	9%
Cracking and Chalking, after heat aging	ASTM C-792	None
Stain and color change	ASTM C-510	Passes (no visible stain)
Bond Durability, on glass, aluminum, concrete (+25% movement)	ASTM C-719	No Failure
Accelerated Weathering	ASTM C-793	No Physical Damage
Cure Time at 77°F (25°C); 50% R.H.	Observed	4-7 days
% Elongation	ASTM D-412	500%
Shrinkage	-	Negligible
Hardness (Shore A)	ASTM D-2240	25±5
Weight per Gallon	-	12.0±0.5 lbs (5.5±0.2 kg)
V.O.C. Content	ASTM D-2369-98	30 gm/liter

Availability and Costs:

Availability: Products are immediately available from GlobalShield, Inc. throughout the United States.

Cost: Cost data is available from your local GlobalShield representative.

Technical Services: GlobalShield Technical Services Department provides problem analysis and assistance in developing recommendations for special applications. Warranted systems require inspection by GlobalShield prior to installation. Progress and final inspections are also required.

Statement of Policy and Responsibility:

GlobalShield takes responsibility for the furnishing of quality materials, and providing specifications and recommendations for their proper installation. GlobalShield does not, either itself or through its representatives, practice architecture or engineering. GlobalShield offers no opinions and expressly disclaims any responsibility, for the structural soundness of substrates upon which its products may be applied. Opinions of competent structural engineers should be obtained by the owner as to the soundness of the substrate and its ability to properly support the contemplated installation. GlobalShield accepts no liability for failures of substrates or resultant damages and no GlobalShield representatives are authorized to vary this disclaimer.

