



PT™ 304

Polyurethane Construction Sealant & Adhesive

DESCRIPTION

PT™ 304 Polyurethane is a one part ready to use, permanently flexible, fast moisture cure, non-sag, paintable, multi-purpose construction sealant & adhesive. Excellent adhesion to prepainted metals, plywood, glass, aluminum, steel, SMC, RIM, FRP, many plastics and composites. PT™ 304 Polyurethane has high bonding and strength capabilities, with outstanding elasticity and exhibits high recovery making it excellent for sealing joints subjected to dynamic and thermal movement in: precast concrete and tilt-up panels, window and door perimeters, expansion, control, and curtainwall joints, and general construction applications.

TYPICAL USES

PT™ 304 is excellent for sealing dynamically moving joints such as: precast concrete and tilt-up panels, window and door perimeters, expansion, control, and curtainwall joints, and general construction applications. Can withstand extended UV exposure.

APPLICATION

Method	Caulk gun, forcing air out of joint.
Preparation	Surface must be dry with no oil, grease, or foreign matter. Clean by solvent or mechanical methods. After mechanical clean, must solvent wipe & allow to dry.
Priming	Usually not needed. Certain porous or treated surfaces may need primer. Test adhesion with small bead on surface, with & without primer.
Masking	Mask surfaces adjacent to joints for neat finish. After sealant application, tool smoothly in one continuous stroke. Remove masking immediately after tooling.
Backing	<u>Deep Joints</u> : Use closed cell polyethylene backer rod to hold depth specifications shown below. <u>Shallow Joints</u> : if foam rod not suitable, use bondbreaker tape.
Depth	Joint width 1/4" to 1", sealant depth 1/8" to 1/2" Sealant depth equals one half of joint width.
Clean Up	Before sealant cures use xylene, toluene.
Painting	Most paints will adhere.

TECHNICAL DATA

Colors	Gray, White
Consistency	Smooth, paste-like, easy tool
Base	Polyurethane
Cure Process	Moisture in air at room temp.
Tack Free	2 ½ hours
Full Cure Time	3/16 inch per 24 hours
Slump In	
1/4 inch Bead	None
Shore A Hardness ...	25-30
Tensile Strength	120 psi
100% Modulus	40 psi
Peel Strength	Passes
Elongation @ Break	700%
Staining	Passes
Temperature	
Application	40°F to 110°F (4°C to 43°C)
Service	-40°F to 200°F (-40°C to 93°C)
Solids Content	94% by wt.
Durability	Passes
Shelf Life	12 months (@ <90°F)
Packaging	10.3 fl. oz. (304 ml) cartridges
Specifications	TT-S-00230C ASTM C 920

PACKAGING

10.3 fl. oz. (304 ml) cart.; 24/case, 64 cases/pallet

STORAGE

Temperature Cool, dry area not to exceed 90°F
Shelf Life 12 months from date of manufacture

COLOR

Gray. Minimum quantities apply for other colors (2500 cartridges).

LIMITATIONS

Not for joints less than 1/4" in width or 1/8" depth. Not for application over damp, contaminated or frozen surfaces. Not for use as structural glazing adhesive. Not for application over silicones or in presence of curing silicones. Avoid contact with alcohol and solvents during cure.

COVERAGE

Depends on dimensions of joint and bead used to fill it:
1/4" W. x 1/4" D. bead = Approx. 25 linear ft./cart.
1" W. x 1/2" D. bead = Approx. 3.2 linear ft./cart.

WARNINGS AND HAZARDS

Combustible liquid and vapor. Keep away from sparks, flame. Use with adequate ventilation. Wear safety glasses and gloves. Do not breathe dust, mist or vapor. May cause respiratory, eye, skin irritation. Avoid contact with eyes and skin. If skin contact, remove from skin, wash with soap and water. If eye contact, flush with clean water for 15 minutes, contact physician. Review MSDS for complete safety information prior to use. Keep container closed. Use proper safety procedures with solvent cleaners.

KEEP AWAY FROM CHILDREN.
For Industrial Professional Use Only.

INSTALLATION

Joint Design: Ideal joint width to sealant depth should be 2:1 ratio. Adhere to sealant thicknesses as listed below.

Surface Preparation: Surface must be dry with no oil, grease, or foreign matter. Clean by solvent or mechanical methods. If solvent, wipe surface clean before it dries.

Priming: Usually not needed. Test adhesion with small bead on surface.

Masking: Mask surfaces adjacent to joints for neat finish. After sealant application, tool smoothly in one continuous stroke. Remove masking immediately after tooling.

Joint Backing: Deep Joints: Use closed cell polyethylene foam backer-rod to limit sealant depth. Shallow Joints: if backer-rod not suitable, use bond-breaker tape.

Depth of Sealant: Ideal: Maximum of 1/2 inch; Minimum 1/8 inch.

Sealant Application: Use standard caulking equipment with sufficient pressure to ensure complete filling of joint.

Tooling: Use spatula, wooden paddle, or putty knife.

Clean Up: On metal or glass: Before sealant cures, use commercial solvent - xylene, toluene. Porous surfaces: Allow to cure, remove by abrasion or other mechanical means.

MAINTENANCE

If sealant is damaged, cut out damaged portion, clean area with solvent. Dry. Caulk new sealant into/on area.

SHELF LIFE

12 months from date of manufacture.

LIMITED WARRANTY

CARLISLE COATINGS AND WATERPROOFING INCORPORATED (CARLISLE) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any CARLISLE materials prove to contain manufacturing defects that substantially affect their performance, CARLISLE will, at its option, replace the material or refund the purchase price.

This limited warranty is the only warranty extended by CARLISLE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. CARLISLE specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of CARLISLE'S liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the CARLISLE material in question.