

NEOGARD

70991 POLYURETHANE SEALANT

PRODUCT DESCRIPTION

70991 is a one-component, permanently flexible, multi-purpose polyurethane sealant. 70991 cures in the presence of atmospheric moisture to provide a permanently elastic bond to fasten materials, which have dissimilar coefficients of expansion. It is ideal for general purpose sealing applications.

70991 has been specifically developed for sealing dynamically moving joints, such as: Expansion and control joints, precast concrete panel joints, tilt-up panel joints, curtain wall joints, perimeter caulking (windows, doors, panels) and metal roofs.

COLORS

Standard colors are: 70991-1 White
 70991-3 Tan
 70991-4 Gray

PACKAGING

10.3 fluid ounce cartridges, 30 cartridges per carton.

TECHNICAL DATA

Typical Properties

| | |
|--------------------------------------|------------------------|
| Sag or Slump | Nil |
| Skin-Over Time at 77°F, 50% RH | 2.5 hours |
| Cure Time at 77°F, 50% RH | 3/16 inch per 24 hours |
| Durometer Hardness, Shore A | 25-30 |
| Ultimate Tensile Strength | 120 psi |
| Elongation | >700% |
| Application Temperature | 40°F to 110°F |
| Service Temperature | -40°F to 200°F |

70991 is designed to meet the requirements of TT-S-00230C and ASTM C-920.

USES

- Vertical and certain horizontal expansion and control joints in masonry construction.
- Perimeter sealant for door and window applications.
- Metal curtain wall construction.
- Copings, parapets and facias.
- Precast Panels.

Anywhere a high performance, one-component, polyurethane elastomeric sealant is required or specified.

LIMITATIONS

- Do not apply to frozen surfaces or through standing water.
- Do not apply over silicones or in the presence of curing silicones.
- Avoid contact with alcohol and solvents during cure.

APPLICATION

The substrate must be clean, dry, and free of oils or greases and of sound quality. Thoroughly remove all loose particles. Clean surfaces with compressed air or solvent. Do not apply sealant when the temperature is below 40°F.

INSTALLATION

JOINT DESIGN: A thin bead of 70991 will accommodate more movement than a thick bead. Joint depths of 70991 should be no thicker than 1/2 inch (12.77mm) and no thinner than 1/8 inch (3.2mm). For perimeter sealing or expansion joint design, the ratio of the joint width to sealant depth should be about 2:1.

Polyurethane or polyethylene foam backer rod is recommended for deep joints. Use polyethylene tape on joints too shallow to accommodate foam rod. These materials permit the application of a thin bead and act as bond breakers, which allow the sealant to stretch freely with joint movement.

PREPARATORY WORK: Clean all joints and glazing pockets, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants and protective coatings.

Metal, glass and plastic surfaces should be cleaned by mechanical or solvent procedures. Detergent or soap and water treatments are not acceptable. In all cases where utilized, solvents should be wiped on and off with clean, oil and lint free cloths.

CAUTION: When using any solvent, always follow solvent manufacturers safety and handling recommendations. Always use 70991 with adequate ventilation and avoid prolonged breathing of vapor and prolonged skin contact.

PRIMING: 70991 is designed to adhere to most surfaces without primer. Consult Neogard for priming recommendations on substrates where there is no adequate adhesion. **NOTE:** Prior to general job

use, place a bead of sealant on the substrate material to test adhesion.

CLEANING

Excess sealant should be cleaned from glass, metal and plastic surfaces while still uncured using a commercial solvent such as xylol, toluol, or methyl ethyl ketone. NOTE: See Preparatory Work" regarding the use of cleaning solvents. Cured sealant must be removed by mechanical means such as razor knife.

STORAGE

When stored in the original, unopened containers at or below 90°F (32°C) 70991 has a shelf life of 12 months from the date of manufacture. For best storage stability keep the material in tightly closed containers when not in use.

SAFETY

On contact, uncured sealant may irritate eyes. Avoid eye contact. KEEP OUT OF REACH OF CHILDREN. To safely use this product, read and abide by current material safety data sheet.

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