Mono® 555

Acrylic Terpolymer Glazing and Framing Sealant

Product Description

Mono® 555 is a high solids, one-part, solvent based acrylic sealant that offers excellent UV resistance and flexible workability.

Basic Uses

Mono 555 was developed for sealing construction joints such as window and door perimeters, control joints, bedding of mullions, frames, PVC, and aluminum siding. For glazing, Mono 555 can be used for cap beads between glass and exterior stop.

Features and Benefits

Mono 555 is highly resistant to environmental extremes. Mono 555 is a thermoplastic sealant that actually benefits from sun radiation to remain soft and flexible in cold temperatures, and has over 40 years of proven performance in cold weather climates. It has exceptional primerless adhesion to all of the common building components and comes in a wide variety of colors to match most any substrate.

Packaging

10.1 oz (300mL) cartridges

Colors

White, Off White, Limestone, Gray Stone, Aluminum Stone, Ivory, Buff, Redwood Tan, Bronze, Brown, and Black.

Availability

Mono 555 is immediately available through your local Tremco field representative(s) or Tremco distributors.

Coverage rate

35 linear feet of joint per 10.1 oz (300ml) cartridge for a 1/4" X 1/4" joint. For specific coverage rates that include joint size, and usage efficiencies, visit our website usage calculator at tremcosealants.com

Applicable Standards

Mono 555 meets or exceeds the requirements of the following specifications:

- U.S. Federal Specification TT-S-230
- CAN/CGSB 19GP5, QPL #60301-E

Joint design

Mono 555 may be used in any vertical or non-traffic horizontal joint designed in accordance with accepted architectural/ engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (6.4mm).

Joint backing

Closed cell or reticulated polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint will prevent the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at time of sealant application.

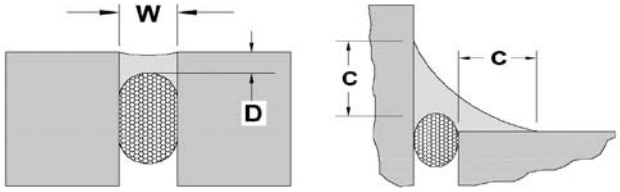
TYPICAL PHYSICAL PROPERTIES

The following results are based on most recent testing performed.

Sag Resistance (CGSB 7.1/7.3):	Pass
Extrusion Rate (CGSB 3.1):	Pass
Hardness Properties / scale A (CGSB 8.2):	40
Loss of Mass (CGSB 5.1):	Pass, <15%
Tack Free Time (CGSB 2.1):	Pass
Resistance to Stain/Bleeding (CGSB 9.2):	Pass
Movement Capability (TTS-230C):	25% total movement (class B)
Adhesion-in-Peel (CGSB 14.6): mortar, glass, al	15-25 psi (2.0-4.5 kN/m)
Adhesion-in-Peel after UV (CGSB 14.7): glass	15-25 psi (2.0-4.5 kN/m)
Application Temperatures (Substrate):	40-140ºF (5-60ºC)
Service Temperature (Cured Bead):	-40-180ºF (-40-82ºC)

Sealant dimensions

W = Sealant width, D = Sealant depth, C = Contact area.



EXPANSION JOINTS - The minimum width and depth of any sealant application should be 1/4" by 1/4" (6mm by 6mm).

The depth (D) of sealant may be equal to the width (W) of joints that are less than 1/2" wide. For joints ranging from 1/2" to 1" (13 mm to 25 mm) wide, the sealant depth should be approximately one-half of the joint width.

The maximum depth (D) of any sealant application should be 1/2" (13 mm). For joints that are wider than 1" (25 mm) contact Tremco's Technical Service Department, or your local Tremco field representative.

WINDOW PERIMETERS – For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area (C) of 1/4" onto each substrate.

Surface Preparations

Surfaces must be sound, clean, and dry. All release agents, existing waterproofing, dust, loose mortar, laitance, paints, or other finishes must be removed. This can be accomplished with a thorough wire brushing, grinding, sandblasting, or solvent washing, depending on the contamination.

Tremco recommends that surface temperatures be 40˚F (5˚C) or above at the time the sealant is applied. If sealant must be applied in temperatures below 40˚F, please refer to the Tremco Guide for Applying Sealants in Cold Weather that can be found on our website at www.tremcosealants.com.

Priming

Mono 555 adheres to common construction substrates without primers; however, Tremco always recommends that a mock-up or field adhesion test on the actual materials being used on the job be conducted to verify adhesion. The field adhesion test can be found in appendixes X1 of ASTM C 1193, Standard Guide for Use of Joint Sealants.

Application

Apply Mono 555 with conventional caulking equipment filling the joint from the bottom first. Immediately tool the sealant with a spatula to ensure intimate contact with the joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed. For window and door perimeter fillet bead applications, a 1/4" minimum surface area is recommended.

Dry time

At 72˚F (22˚C), Mono 555 will develop a robust skin overnight, and be fully cured in 21 days. As the temperatures decrease, the dry time of Mono 555 will increase. A good rule of thumb is one additional day for every 10°F decrease in temperature.

Clean up

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

Limitations

- Do not apply over damp or contaminated surfaces
- Do not use in contact with polystyrene, insulated glass seals, or laminated glass edge
- Use adequate ventilation
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health hazards

Warranty

Tremco warrants its sealants to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco sealants. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco sealant proven to be defective and Tremco shall not be liable for any loss or damage.

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