

Dymeric® 240FC

High Performance Multi-Component Polyurethane Sealant

Product Description

Dymeric® 240FC is a gun grade, multi-component, chemically curing, polyurethane sealant that includes a tintable base, curative packet, and a choice of 70 standard colors. A Limestone Pretinted version is available.

Basic Uses

Dymeric 240FC applications range from pre-cast tilt-up concrete, masonry, and exterior insulating and finishing systems (EIFS), to metal curtain walls, and perimeter joints around doors and windows. It can also be used in certain water immersion applications.

Features and Benefits

Dymeric 240FC is an all around general-purpose sealant that provides flexible, long life and durable waterproofing for both new construction and restoration projects in a fast curing formulation. Dymeric 240FC is formulated to be a lightweight material designed for extremely easy mixing, even in cold temperatures. Dymeric 240FC is a solvent-free product that is compliant with all existing VOC regulations. Please contact your local Sales Representative or Tremco's Technical Service Department for information regarding immersed conditions.

Colors

Dymeric 240FC is available as a base and curative that can be tinted to your choice of 70 standard colors, or we can match a special color for you. A color pak is not required for the pretint version.

Packaging

1.5 ga (5.7 L) and 3 gal (11.4 L) kits with pre-measured pouches of curing agent. Pretint in 1.5 gallons (5.7 L) only.

Coverage Rates

308 feet of joint per gal 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 www.tremcosealants.com.

Fire-Rated Systems

FF-D-1061, FF-S-1030, FW-D-1057, FW-S-1014, HW-D-1052, HW-S-1011, WW-D-1052, WW-S-1033

Applicable Standards

Dymeric 240FC meets or exceeds the requirements of the following specifications:

- ASTM C920-02 Type M, Grade NS, Class 50, Use I (Class 2), T, NT, M, A and O (granite)
- U.S. Federal Specification TT-S-00227E Class A, Type II
- CAN/CGSB 19.24-M90 Class B, Type II

Joint Design

Dymeric 240FC may be used in any vertical or horizontal joint designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (6.4 mm).

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.

Pot Life (after curative packet added)

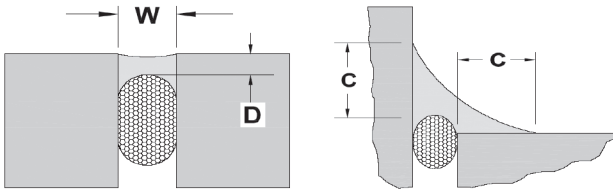
3.0-3.5 hr at 77 °F (25 °C)
1.5-2.0 hr at 95 °F (35 °C)
1.0-1.5 hr at 120 °F (48.9 °C)

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Value
Low Temperature Flexibility	ASTM C793	Passes at -65 °F (-54 °C)
Hardness, durometer scale "A"	ASTM C661	30 ±3
Weight Loss	ASTM C1246	Passes
Skin Time (tooling time)		3 hr
Tack Free Time	ASTM C679	19 hr
Stain & Color Change	ASTM C510	No stain, No color change
Adhesion-in-Peel	ASTM C794	>10 pli (pass)
Accelerated Weathering	ASTM C793	Pass
Movement Capability	ASTM C719 modified	±50%

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" x 1/4" (6 mm x 6 mm).

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

Where deemed necessary, use Tremco Primer #171 for porous substrates and TREMprime Non-Porous Primer for metals and plastics. Dymeric 240FC typically adheres to common construction substrates without primers; however, Tremco always recommends that mock-up or field adhesion test be performed on the actual materials being used on the job to verify the need for a primer. The field adhesion test can be found in appendix X1 of ASTM C1193, Standard Guide for Use of Joint Sealants.



UL Tested Systems FF-D-1061, FF-S-1030, FW-D-1057,
FW-S-1014, WW-D-1052, WW-S-1033, HW-D-1052, HW-S-1011

Application

Mix in accordance with instructions on the pail using the entire pre-measured curative packet and your selected Universal Color Pak. One color pack should be used with 1.5-gal pails and 2 color packs should be used in the 3-gal pails. Mix all three parts for a minimum of 6 minutes, scrapping the sides of the pail and until there are no color striations. A color pak is not required for the pretint version.

Ensure the backer rod is friction fitted properly and any primers have been applied. Apply sealant with conventional caulking equipment filling the joint from the backer rod up. 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 a cleaner finish, mask the sides of the joint with tape prior to filling.

Cure Time:

At 72 °F (22 °C) Dymeric 240FC will reach full cure in about 48 hours. As the temperatures decrease, the cure time will increase. A good rule of thumb is an additional 24 hours 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 Dymeric 240FC to damp or contaminated surfaces.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health hazards.
- For best results, always use a Universal Color Pak.

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.

Please refer to our website at www.tremcosealants.com
for the most up-to-date Product Data Sheets.