

# Dymonic FC

One Part, Fast-Cure, Hybrid, Moisture Curing, Isocyanate and Silicone Free, High UV Resistant Sealant

## PRODUCT DESCRIPTION

Dymonic FC is a low modulus, single-component, moisture-cure polyurethane hybrid sealant. Formulated with proprietary polymer technology, Dymonic FC provides a fast cure, paintable sealant that is fantastic for façade and window perimeter sealing.

## USAGE/PURPOSE

Dymonic FC is a flexible, paintable and fast cure sealant that offers great performance in window perimeter seals and exhibits outstanding adhesion to metals and most common building materials once cured. Typical applications of Dymonic FC include:

- Control joints
- Precast concrete panel joints
- Perimeter caulking (windows, doors, panels)
- Aluminium
- Masonry
- Vinyl Siding
- Renders
- Polystyrene

## FEATURES & BENEFITS

- Dymonic FC offers excellent performance in facade joints and window perimeters to provide a lasting seal for years.
- Dymonic FC does not require a primer on most construction materials easing the application for the installer, especially on narrow joints where multiple primers might otherwise be required.
- Isocyanate and silicone free help ensure that green chemistry is used and assisting with projects applying for Green Star.
- By being a paintable sealant, it provides designers/owners with maximum flexibility on the façade.

## PACKAGING

600ml Sausages - 20 per box

## COLOURS

- White
- Black
- Grey
- Aluminium Stone

## SHELF LIFE

12 months when stored as recommended in original unopened packaging.



## STORAGE

Store in a dry cool place in original unopened packaging.

## LIMITATIONS

Dymonic FC is not recommended for:

- Use with polyethylene, silicone, butyl rubber, neoprene or EPDM.
- Use under polyurethane waterproofing membranes.
- Applications on damp or green concrete.
- Exposure to harsh chemicals such as acids, degreasing agents, or hydrocarbons (chlorine, bromine, etc.).
- Soft architectural finishes without prior testing.
- Natural Stone without prior testing.
- Use on bitumen will result in discolouration.
- Allow to fully cure prior to installation of nearby silicones or polyurethanes.
- Use with adequate ventilation.
- Use in Chlorinated, Potable, heavy or waste water.

## SUBSTRATE PREPARATION

- All surfaces must be clean, dry, sound & free from dust, oil, rust, release agents or any other contamination.
- Metal & glass should be cleaned with Tremco Xylo. Solvent should be wiped from the surface with a clean, dry cloth.
- For plastics contact Tremco for a recommended cleaning solvent.
- When used on remedial work all existing sealant must be removed.

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Skin Time @ 23°C, 50% R.H.	N/A	45 Minutes
Cure Time @ 23°C, 50% R.H.	N/A	2.5mm/Day
% Solids by Volume	DIN EN ISO 10563	97%
Hardness (Shore A)	DIN 53505	30
Tensile Strength	DIN 53504 S2	1.3 N/mm <sup>2</sup>
% Elongation	DIN 53504 S2	500%
Modulus at 60% Extension	DIN EN ISO 8339	0.3 N/mm <sup>2</sup>
Modulus at 100% Extension	DIN EN ISO 8339	0.5 N/mm <sup>2</sup>
Tear Strength	ISO 34	7.0 N/mm <sup>2</sup>
Application Temperature	N/A	4 to 37°C
Joint Movement Capability	N/A	+/- 35%
Service Temperature	N/A	-40 to 90°C

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## PRIMING

Dymonic FC typically adheres tenaciously to common construction substrates without primers. However, Tremco always recommends that a field adhesion test be performed on the actual materials being used on the job to verify the need for a primer. In the event that a primer is needed, use the following:

- ❑ For Porous Substrates: Vulkem 171 Primer, TREMproof 200EC Primer, or TREMprime Multi-Surface Urethane Primer (MSUP).
- ❑ For Non Porous Substrates: TREMprime Non-Porous Primer.

## JOINT DESIGN CONSIDERATIONS

Dymonic FC may be used in vertical or horizontal joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement but not less than 6mm.

## SEALANT BACKING

- ❑ Closed cell polyethylene backing rod is recommended for horizontal joints to provide correct joint depth to width ratio, as well we prevent 3 sided adhesion. Open cell backing rod is recommended for vertical installation to allow for faster curing.
- ❑ Where depth of joint will prevent the use of backer rod, an adhesive backed bond breaker tape should be used to prevent three-sided adhesion. All backing should be dry at the time of sealant application.

## METHOD OF APPLICATION

- ❑ Ensure that the backer rod is friction fitted properly or bond breaker tape has been installed and any primers required have been applied.
- ❑ Slide the sealant into the applicator gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size.
- ❑ Extrude the Dymonic FC sealant into the joint, ensuring that no air is trapped in the joint.
- ❑ Fill the joint completely with a proper width-to-depth ratio (2:1), and tool to ensure intimate contact of sealant with joint walls.
- ❑ Tooling the sealant is recommended immediately after the application of the sealant. Dry tooling is always preferred. For a cleaner finish, mask the sides of the joint with tape prior to filling.

## COVERAGE RATE

(Approximate Linear Metres per 600ml Sausage)

DEPTH	WIDTH				
	5mm	10mm	15mm	20mm	25mm
5mm	24M	12M	-	-	-
10mm	-	-	4M	3M	2.4M
15mm	-	-	-	-	1.6M

## FILLET JOINTS TRIANGULAR CROSS SECTION

6mm x 6mm = 33.33M

10mm x 10mm = 12M

## CURE TIME

Dymonic FC generally cures at a rate of 2.5mm per day at 24°C and 50% relative humidity. Dymonic FC will skin in 45 minutes and be tack free in 4-6 hours. The cure time will increase as temperatures and/or humidity increases.

## CLEAN UP

- ❑ Excess sealant and smears adjacent to the joint interface can be carefully removed with Tremco Xylol before the sealant cures.
- ❑ Any utensils used for tooling can also be cleaned with Tremco Xylol, mineral spirits or white spirits.
- ❑ Clean hands with Acetone or other mild solvent then brushing with a stiff-bristle brush. Water will accelerate the curing of the Dymonic FC.

## HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

## TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

## GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

## CONTACT OUR TEAM

Tremco CPG Australia Pty Ltd

ABN: 25 000 024 064

Unit 12, 4 Southridge Street

Eastern Creek, NSW 2766

P: (02) 9638 2755

F: (02) 9638 2955

E: tremco@tremco.com.au