

# Dymonic FC

## LOW MODULUS HYBRID POLYURETHANE SEALANT

### Key Benefits Summary

- o DYMONIC FC offers excellent performance in moving joints
- o Exhibits tenacious adhesion once fully cured
- o DYMONIC FC does not require a primer on most construction materials
- o Extremely good UV resistance
- o Paintable

### Standards

Dymonic FC meets or exceeds;

- o ASTM C920, Type S, Grade NS, Class 100/50, Use NT, M, A and O.
- o US Federal Spec. TT-S-00230C, Class A, Type 2

### PRODUCT INFORMATION

#### DESCRIPTION

Dymonic FC is a low modulus, one-component, moisture-cure polyurethane hybrid sealant. Formulated with proprietary silane end-capped polymer technology, Dymonic FC provides the best performance characteristics of polyurethane and silicone sealants.

#### USAGE/PURPOSE

Typical applications for Dymonic FC:

- o Structural expansion and control joints
- o Precast concrete panel joints
- o Perimeter caulking (windows, doors, panels)
- o EIFS
- o Aluminium, masonry and vinyl siding

#### LIMITATIONS

Dymonic FC is not recommended for:

- o Use with polyurethane membranes.
- o Prolonged immersion in water.
- o Application over damp or contaminated surfaces
- o Exposure to harsh chemicals
- o Special architectural finishes without prior testing
- o Certain grades of marble and stone work without prior testing and additional surface preparation

#### COLOURS

White, Off White, Black, Bronze, Buff, Grey, Allum Stone

#### PACKAGING

Dymonic FC is packaged in standard 300ml cartridges & 600ml sausages.

#### INSTALLATION - Joint Design

May be used in any vertical or horizontal joint design in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement but not less than 6mm wide.

### TECHNICAL INFORMATION

#### COMPOSITION

Dymonic FC is formulated from a unique TREMCO developed and patented polyurethane polymer to provide a high performance, fast skinning joint sealant. The Dymonic FC polymer exhibits excellent adhesion, which will not diminish over time. It adheres without primer in most applications (concrete, wood, brick, masonry, most types of granite, etc.) The low modulus and high recovery properties of Dymonic FC sealant make it ideally suited for joints with high movement.

#### PERFORMANCE (Typical Properties)

- o ADHESION IN PEEL  
Concrete 80 - 100N  
Aluminium 90 - 110N
- o SKIN TIME  
60-90 minutes
- o TACK FREE TIME  
3-4 hours
- o STAINING & COLOUR CHANGE  
None
- o MOVEMENT CAPABILITY  
+/- 35%
- o ACCELERATED AGEING  
No adhesive or cohesive failure, nor significant changes after UV and cold temperature Bond Test
- o VOC  
8g/litre

NOTE: Typical Properties should not be used as specifications.



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## USAGE GUIDELINES

### DIMENSION

- o Minimum joint size is 6mm x 6mm
- o For joints 6mm to 12mm wide, the width to depth ratio should be equal (ie: Square)
- o Joints 12mm - 25mm the depth should be equal to half the width (ie: 2:1 ratio)

### SURFACE PREPARATION

For good adhesion, the joint interface must be sound, clean and dry. Depending on the substrate, or presence of form release agents, masonry waterproofing, dust, loose mortar or laitance, architectural paints or finishes, the joint surface may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or priming

### PRIMING

Where deemed necessary, use Tremco Primer #171 or TREMprime Silicone Porous Primer for porous surfaces, and TREMprime Non-Porous Primer for metals and plastics. Dymonic FC typically adheres to common construction substrates without primers; however due to the variability of substrate finishes such as anodized aluminium, Tremco always recommends that a mock-up or field adhesion test be performed on the actual materials being used on the job to verify the need for a primer.

### TOOLING & CLEANING

Tooling is recommended immediately after application to ensure firm intimate contact with the joint interface. Dry tooling is preferred although tooling agents can be utilised. Excess sealant and smears adjacent to the joint must be removed before sealant cures.

### JOINT BACKING BOND BREAKING TAPE

Closed cell polyethylene backer rods are preferred as joint backing to control depth of sealant bead. Where depth of joint will prevent use of joint backing, an adhesive backed polyethylene tape should be installed to prevent three-side adhesion.

### METHOD OF APPLICATION

Cartridges of Dymonic FC are easy to apply with conventional caulking equipment. Fill joint completely with a proper width-to-depth ratio and tool.

### MAINTENANCE

Damaged sealant can be repaired. Consult your Tremco representative for repair procedures.

### HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before use

### TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

### GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specification and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product. All claim concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

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