

Dymonic FC

LOW MODULUS HYBRID POLYURETHANE SEALANT

Key Benefits Summary

- Dymonic FC offers excellent performance in moving joints
- Exhibits tenacious adhesion once fully cured
- Dymonic FC does not require a primer on most construction materials
- Isocyanate and solvent free.
- Extremely good UV resistance
- Paintable

Standards

Dymonic FC meets or exceeds;

- ASTM C920, Type S, Grade NS, Class 100/50, Use NT, M, A and 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:

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

LIMITATIONS

Dymonic FC is not recommended for:

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

PACK SIZE/COLOUR

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

- 300ml
 - White
 - Black
 - Grey
- 600ml
 - Grey
 - Black
 - White
 - Off White
 - Alum Stone

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)

- ADHESION IN PEEL
 - Concrete 80 - 100N
 - Aluminium 90 - 110N
- SKIN TIME
 - 60-90 minutes
- TACK FREE TIME
 - 3-4 hours
- STAINING & COLOUR CHANGE
 - None
- MOVEMENT CAPABILITY
 - +/- 35%
- ELONGATION AT BREAK
 - 300% - 400%
- ACCELERATED AGEING
 - No adhesive or cohesive failure, nor significant changes after UV and cold temperature Bond Test
- VOC
 - 8g/litre

NOTE: Typical Properties should not be used as specifications.

USAGE GUIDELINES

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.



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DIMENSION

- ❑ Minimum joint size is 6mm x 6mm
- ❑ For joints 6mm to 12mm wide, the width to depth ratio should be equal (ie: Square) 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.

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.

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

HEALTH & SAFETY PRECAUTIONS

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

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales 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 products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO 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 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.