

TRITOSIL W70LM

LOW MODULUS ELASTOMERIC JOINT SEALANT

DESCRIPTION

TRITOSIL W70LM is a single component Low Modulus high-performance, neutral-cure, isocyanate free, elastomeric joint sealant. It offers excellent performance in moving joints and isolation joints. It exhibits advantages like excellent UV stability, outstanding adhesion and primer less bond to most substrates and can be used for indoor and outdoor applications.

Uses

Typical applications for **Tritosil W70LM** include sealing of expansion and isolation joints on buildings and concrete structures like bridge decks, retaining walls, boundary walls, water retaining structures, precast concrete panel joints, perimeter caulking (windows, door, panels), EIFS, aluminum and sealing of tile expansion joints and roof flashing termination grooves for waterproofing.

FEATURES

- Isocyanate and tin free, ultra-low VOC
- Non-corrosive
- Single component and convenient packing
- Movement accommodation factor $\pm 50\%$
- Excellent adhesion without priming
- Fast curing & early skin formation
- Superior UV resistance

ADVANTAGES

- Safer and environment friendly
- No mixing, easy tooling and minimal wastage
- Can be used to seal expansion joints
- Saves time
- Higher stability compared to normal PU sealants
- Provides long lasting, weather resilient seal
- Better air quality especially in indoor application
- Suitable for all climates

STANDARDS

Tritosil W70LM meets or exceeds the requirements of the following specifications:

- ASTM C 920 Type S, Grade NS, Class 25.

TECHNICAL DATA

Physical Properties	Typical Value
Skin over time	2 - 5 mins.
Tack free time	25 mins.
Flow (sag or slump)	Non Sag
Hardness : Shore A	25
Movement Capability, %	± 30
Peel Strength (N), concrete	>30
Tensile Strength (N/mm ²)	0.8
Elongation at break %	>500
Effects of Accelerated Aging @ 300 hrs. UV exposure	No deterioration
Application Temperature (°C)	5°C to +50°C

PACKAGING

400ml sausages and 600ml sausages, 20 sausages per carton

COLORS

White, Off-white, Grey, Beige and Black. For other colours please contact local Triton representative.

EXPANSION JOINT DESIGN

Tritosil W70LM may be used in any joint designed in accordance with accepted architectural/engineering practices. Joint width should be at least 4 times anticipated movement, and not less than (5mm).

While applied on an expansion joint the depth (D) of the sealant should be equal to the width (W) of the joints that are less than 10mm wide. For wider joints, width to depth ratio should be 2 : 1.

The maximum width of the joint on which **Tritosil W70LM** can be applied is 25mm.

JOINT BACKING

Closed cell 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 is insufficient for 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.

YIELD

The following formula is an approximate guideline to calculate foreseen yield for a standard 600ml sausage of **Tritosil W70LM**.

$$L = 600 / (W \times D)$$

Where: L = Length of sealant in metres obtained per sausage.

D = Depth of the joint in mm

W = Width of the joint in mm

Meter per 600 ml

Joint Depth(mm)	Joint Width(mm)					
	6	10	12	15	20	25
6	16.6					
8		7.5	6.2	5		
10		6	5	4	3	
12					2.5	1.9
15						1.6

APPLICATION DETAILS

SUBSTRATE PREPARATION

Surfaces must be sound, clean, and dry. All release agents, dust, loose mortar, laitance, paints, or other loose particles must be removed. This can be accomplished with a thorough wire brushing, sanding, or solvent washing, depending on the contamination. Triton recommends that surface temperatures be below 50°C at the time the sealant is applied.

PRIMING

Tritosil W70LM typically adheres to common construction substrates without primers; however, due to the variability of substrate finishes available, where deemed necessary, use Tritosil Prime P for porous surfaces and Tritosil Prime MP for metals or plastics. A mockup or field adhesion test can be performed on the actual materials being used on the job to verify the need for a primer.

CURING TIME

Tritosil W70LM generally cures at a rate of 2mm per day at 25°C and 50% relative humidity. **Tritosil W70LM** will skin in 10 minutes and be tack-free in 25-30 minutes. Lower temperatures and humidity will extend curing time.

APPLICATION

Tritosil W70LM is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly. Mask the sides of the joint with tape prior to filling for a cleaner finish. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

FOR OPTIMUM PERFORMANCE

- **Tritosil W70LM** can adhere to other residual sealants in restoration applications. For best results always clean the joint as advised in the Surface Preparation section of this data guide.
A product field adhesion test for **Tritosil W70LM** within the specific application is always recommended to confirm adhesion and suitability of the application.
- When using **Tritosil W70LM** in a traffic-bearing horizontal joint, use a firmer joint backing, such as neoprene rod or polyethylene foam block, and recess the surface of sealant (3mm - 6mm).
- Proper application is the responsibility of the user. Field visits by Triton personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

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.

NOTES

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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Product of:



LIMITATIONS

- Non Paintable
- Do not apply over damp or contaminated surfaces.
- Do not use **Tritosil W70LM** as a structural (load transferring) sealant

STORAGE AND SHELF LIFE

Tritosil W70LM has a shelf life of 12 months when stored in tightly closed original casks, in a dry place at a temperature below 25°C

HEALTH AND SAFETY

Use only with adequate ventilation. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection if the TLV is exceeded or used in a poorly ventilated area. Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and health Hazards.

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