

# TECHNICAL DATASHEET

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## SILICONE SEALANT

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### TFXGPS2450

## GENERAL PURPOSE SILICONE SEALANT - TFXGPS2450



## DESCRIPTION

TFXGPS2450 GENERAL PURPOSE SILICONE SEALANT is a cost-effective, acetoxycure silicone sealant designed for a wide range of sealing and glazing applications. It provides excellent adhesion, long-lasting flexibility, and reliable weather resistance. Suitable for sealing and filling joints around windows, doors, glass, signs, sanitary fittings, and various interior and exterior construction applications.

## FEATURES

- Ready to use – one-component formula with no mixing required.
- Easy application using a standard caulking gun.
- Forms a durable, flexible seal that accommodates normal joint movement.
- Acetoxycure system for fast and reliable curing at room temperature.
- Excellent adhesion to glass, aluminum, ceramic, and other non-porous surfaces.
- Superior resistance to UV rays, ozone, moisture, and temperature fluctuations.
- Waterproof and weatherproof performance for indoor and outdoor use.
- Non-slumping formula suitable for vertical and overhead applications.

## TECHNICAL DATA SHEET

| Specification                                        |                  |
|------------------------------------------------------|------------------|
| Model Number                                         | TFXGPS2450       |
| Specific Gravity                                     | 0.95 ± 0.02 g/ml |
| Flow (ISO 7390 – Non-Slump)                          | 0 mm             |
| Extrusion Rate                                       | 155 ml/min       |
| Skin Time                                            | 10 minutes       |
| Tack-Free Time                                       | ≤ 0.5 hour       |
| Curing Time (5 mm)                                   | ≤ 24 hours       |
| <b>As Cured (After 21 Days at 25°C &amp; 50% RH)</b> |                  |
| Shore A Hardness                                     | 24 Points        |
| Movement Capability                                  | ±15%             |
| Tensile Modulus at 50% Elongation                    | 0.30 MPa         |
| Tensile Modulus at 100% Elongation                   | 0.35 MPa         |
| Ultimate Tensile Strength                            | 0.45 MPa         |
| Ultimate Elongation at Break                         | 375%             |

Note: The values shown above are typical laboratory test results and are provided for reference only. Actual performance may vary depending on substrate, environmental conditions, and application method. These values should not be used as product specifications.

## VARIANTS

TFXGPS2450 GENERAL PURPOSE SILICONE SEALANT is available in the following standard colors:

- Translucent- TFXGPS2450CL
- White- TFXGPS2450WH
- Black- TFXGPS2450BLK

## STORAGE

Store in a cool, dry place below 25°C, away from direct sunlight and heat sources. When stored in its original unopened packaging under recommended conditions, TFXGPS2450 GENERAL PURPOSE SILICONE SEALANT has a shelf life of 12 months from the date of manufacture.

## APPLICATION

- Cut the tip of the cartridge and securely attach the nozzle.
- Trim the nozzle at a 45° angle to achieve the desired bead size.
- For clean, professional joints, apply masking tape along both sides of the joint before sealing.
- Apply the sealant evenly using a standard caulking gun, ensuring the joint is completely filled.
- Tool the sealant immediately after application to create a smooth, uniform finish.
- Remove the masking tape before the sealant begins to skin over.
- Do not simply apply a surface bead. Ensure the sealant is pressed into the joint for proper adhesion and long-lasting performance.

## SURFACE PREPARATION

Ensure all joint surfaces are clean, dry, and free from dust, grease, oil, loose particles, old sealant, paint, and other contaminants. For optimum adhesion, clean non-porous surfaces using a suitable solvent such as isopropyl alcohol or acetone with a lint-free cloth, then wipe dry. Avoid using detergent or soap-based cleaners, as they may leave residues that affect adhesion.

## COMPATIBILITY TESTING

Before full-scale application, conduct a compatibility and adhesion test on the intended substrates. Certain materials, coatings, plastics, and accessories may react with silicone sealants, leading to discoloration or reduced adhesion. Testing is strongly recommended, especially for sensitive or specialty materials

## HANDLING PRECAUTIONS

Always refer to the product label and Safety Data Sheet (SDS) before use. Wear appropriate personal protective equipment (PPE) during application. Avoid prolonged skin contact and ensure adequate ventilation in enclosed areas. Keep the product out of reach of children.



## CAUTION

- Uncured silicone may cause mild irritation to the eyes and skin.
- In case of eye contact, rinse immediately with plenty of clean water for at least 15 minutes and seek medical attention.
- If skin contact occurs, wash thoroughly with soap and water.
- Use only in well-ventilated areas.
- Do not ingest the product.

## LIMITATIONS

- Structural glazing applications.
- Manufacturing or sealing of Insulated Glass (IG) units.
- Continuous water immersion or underwater applications.
- Natural stone surfaces such as marble, limestone, and granite where staining may occur.
- Bituminous, oily, or contaminated surfaces.
- Polycarbonate sheets without prior compatibility testing.
- Applications where the substrate temperature exceeds 50°C or where surfaces are wet, dusty, greasy, or frozen.
- Surfaces requiring painting, as silicone sealant is generally not paintable.
- Areas with no access to atmospheric moisture for curing.
- Materials sensitive to acetic acid release during curing, including certain metals such as copper, brass, zinc-coated steel, and galvanized steel.