



MiraFlex Hybrid Sealant

Product Technical Data Sheet

MiraFlex Hybrid Sealant is a single component, Hybrid Silane Terminated Polyether (STPE) high-performance sealant and adhesive engineered for use across horizontal, overhead, and vertical applications. Formulated with a focus on longevity, it boasts moisture-curing and UV-stable properties, rendering it suitable for deployment in diverse environmental conditions including dry, damp, and cold climates. The incorporation of hybrid technology enables MiraFlex Hybrid Sealant to deliver superior adhesive and cohesive bonding capabilities, alongside remarkable durability and an extended operational lifespan when compared with conventional polyurethane or silicone alternatives. MiraFlex Hybrid Sealant stands out for its isocyanate-free and solvent-free composition, ensuring no shrinkage during the curing process, absence of UV-induced discoloration, and minimal odor emission, thus rendering it apt for both indoor and outdoor use. MiraFlex Hybrid Sealant exhibits rapid curing characteristics, forming a protective skin within 60 minutes and enabling it to be painted in as little as 90 minutes.

MiraFlex Hybrid Sealant is ideal for use with most common building materials including concrete, masonry, glass, metal, wood, PVC, fiberglass, FRP, EPS foam, and vinyl. Meets Federal specification TT-S-00230C, Type II, Class A, ASTM C-920, Type S, Grade NS, Class 50, Use NT, T, O, A, M, G, and Canadian standard CAN/CGSB 19. 13-M82.

WHERE TO USE

- Interior and exterior – above grade.
- Vertical and horizontal joints.
- Seal control joints, cove joints, penetrations, and transitions.
- For use when detailing cracks.
- Use to seal joints and gaps between dissimilar substrates.
- Perimeter and changes of plane in mechanical equipment rooms.
- Seal around pipes and penetrations in pools and fountains.
- Use for applications where subsequent coating will be applied.
- For use with concrete, masonry, metal, plastic, ceramic, and wood.
- Crack isolation/waterproofing with all Miracote flooring systems.
- Acceptable for use in structural glazing applications.

ADVANTAGES

- Environmentally friendly – solvent and isocyanate free.
- Conforms to USDA Requirements.
- Superior bonding, even to damp surfaces.
- Fast tack-free and final cure times.
- Low temperature gunnability – for use in all seasons.
- Adhesion to damp and non-porous surfaces without primer.
- Excellent resistance to aging and weathering.
- Exceptional structural bonding to most construction materials.
- Odorless, non-yellowing and non-staining.
- 100% solids – no shrinkage.
- VOC-compliant in all 50 states.
- Qualified for LEEDS credits.
- Paintable with acrylic/latex-based coatings within 90 minutes.

THEORETICAL YIELD PER SAUSAGE

1/4" x 1/4"	49.6 LF
1/2" x 1/4"	25.0 LF
3/4" x 3/8"	11.0 LF

Actual yield per cartridge is dependent on many factors including, but not limited to, substrate texture and porosity, variations in applied thickness and normal allowance for waste.

PACKAGING and COLORS

20 fl. oz. (591 ml) Sausage: 12 per case, 45 cases per pallet
Available in Limestone Gray, stocked
Also available in 10 standard colors, long lead times may apply.

MIX RATIO

Single component – no mixing.

SHELF LIFE AND STORAGE

24 months from the date of manufacture in original, factory-sealed packaging and stored in a protected indoor environment with a temperature between 40-80°F (7-27°C). Elevated Temperatures will reduce shelf life

TYPICAL PROPERTIES @ 70°F (21°C), 50% RH

Uncured

Viscosity600,000 cps
Brookfield HADV2T, T-E Spindle, 5rpm, 73°F (23°C)

Tack-free Time (ASTM C679).....60 minutes

Cured - Physical

Application Temperature35°F – 100°F (27°C to 38°C)

Service Range -40°F – 200°F(-40°C to 93°C)

Volatile Organic Content (ASTM D2369).....8 g/l

Tensile Strength (ASTM D412) 230 psi (1.59 MPa)

Tensile Elongation (ASTM D412) >600%

Joint Movement (ASTM C719) +/- 50%

Shrinkage No visible shrinkage after 14 days

Durometer Shore A (ASTM C661)31

Adhesin-in-Peel (ASTM C794)25 pli

Tear Strength (ASTM D624)55 pli

Stain & Color Change (ASTM C510).....No Change

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation** – All joint walls and surfaces to receive sealant must be clean, sound, dry, free from frost and any bond inhibiting substances including, but not limited to, grease, oil, any other contaminants, or loosely adhered material. Curing compound residues and other foreign matter must be thoroughly removed. Install bond breaker tape or appropriate backer rod in movement joints to prevent 3-sided adhesion.

• **Concrete and Masonry** – Mechanically prepare surfaces by wire-brushing, sandblasting, or grinding to achieve a sound substrate free of laitance and all contaminants.

• **Metal** – Prepare all metal by removing any rust, scale, residue, and any film-forming substances to ensure maximum adhesion. Hand wipe surface with appropriate solvent or alcohol and allow to dry thoroughly. Conduct adhesion testing if required.

• **Wood** – Allow any chemically treated wood to weather for a minimum of six months before the application of sealant. Do not use with fire-retardant lumber. Wood surfaces must be clean, dry, and sound, and remove any existing coatings or paint unless pull tests are performed to ensure compatibility.

• **Application** – **MiraFlex Hybrid Sealant** is applied using high quality, professional sausage caulking gun available through any Miracote distributor. Do not puncture sausage until sealant is ready to be extruded and all preparation work has been completed. Gun sealant into joints at the deepest point and fill completely utilizing a properly sized and cut nozzle tip. Maintain a steady flow with the nozzle tip in the body of the sealant which will help prevent air entrapment. Immediately tool to ensure maximum contact to adherent surfaces for optimal adhesion, proper sealant shape, and clean looking sealed joints.

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FOR BEST RESULTS

- Always install mock-up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of Product Technical Data Sheets (PTDS), Safety Data Sheets (SDS), and Installation Guides (IG) at www.miracote.com.
- Always protect materials from excessive heat/cold and humidity, and whenever possible pre-condition *MiraFlex Hybrid Sealant* sausages to a moderate temperature, as necessary.
- Regularly check width to depth ratio and monitor consumption to ensure correct application rates are obtained.
- If tool is required, perform within 15 minutes of application.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for observation and making recommendations, and do not assume any liability for supervision or quality control.

LIMITATIONS

- Treated wood requires a minimum of six months' cure prior to application in accordance with APA guidelines.
- Do not use under complete immersion conditions when the sealant will be exposed to direct contact with water. Encapsulate with waterproof membrane.
- When applying subsequent coatings and paints, adhesion testing and verifying compatibility are required.
- Depth of MiraFlex Hybrid Sealant ideally should not exceed ½" (12.7 mm); minimum depth must be ¼" (6.3 mm).
- Do not tool with the use of detergent or soapy solutions.
- Low temperatures and relative humidity will extend tack free time and cure rates.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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