



MiraFlex Hybrid Sealant MG

Product Technical Data Sheet

MiraFlex Hybrid Sealant MG is a single component, multi-purpose, marine grade sealant formulated from unique advanced Hybrid Silane Terminated Polyether (STPE) chemistry. high-performance Class 50 STPE sealant engineered for the harshest topside and splash-zone marine environments, offering 45–50 PLI bond strength, Shore A hardness of 40–42, and the ability to accommodate up to 600% movement while resisting salt spray, UV exposure, thermal shock, vibration, and frequent wetting; isocyanate-free, low-VOC, and odorless, it cures to a non-tacky finish that resists dirt pickup and yellowing, provides long-term flexibility and impact resistance. MiraFlex Hybrid Sealant MG compatible with polyurethane, acrylic, and silicone waterproofing systems—apply to clean, dry surfaces and primer where recommended, tool within working time, and allow full cure before heavy loading.

MiraFlex Hybrid Sealant MG 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 I, Class B, ASTM C-920, Type S, Grade NS, Class 50, Use T2, M, G, A, and O, and Canadian Standard CAN 19.13-M-82, and Army Corps of Engineers CRD -C-541, Type 1, Class B.

WHERE TO USE

- Construction, repair and waterproofing in aquatic environments.
- Ideal joint sealant in pools, fountains, waterscapes and water parks.
- Seal control joints, cove joints, penetrations, and transitions.
- Concrete and precast joints in water and wastewater plants.
- Expansion and control joints in secondary containment structures.
- Use to seal joints and gaps between dissimilar substrates.
- Perimeter and changes of plane in mechanical equipment rooms.
- Seal expansion and control joints in secondary containment areas.
- Seal concrete joints in gas stations and refueling environments.
- Crack isolation/waterproofing with all Miracote flooring systems.
- Acceptable for use in structural glazing applications.

ADVANTAGES

- Environmentally friendly – solvent and isocyanate free.
- Fast tack-free and final cure times.
- Low temperature gunnability – for use in all seasons.
- Adhesion to damp and non-porous surfaces without primer.
- Resistant to UV exposure, weathering, and extreme temperatures.
- Excellent resistance to chlorine up to 5 ppm concentrations.
- Exceptional structural bonding to most construction materials.
- Odorless, non-yellowing and non-staining.
- High solids – no shrinkage.
- VOC-compliant in all 50 states.
- Qualified for LEEDS credits.
- Paintable with acrylic/latex-based coatings within 60 minutes.
- Ideal for use in horizontal, vertical, and overhead joints.

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 White and Limestone Gray, stocked
Also available in 10 standard colors, longer 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 60–95°F (15–35°C) and no direct sunlight.

TYPICAL PROPERTIES @ 77°F (25°C), 50% RH (1/8" thickness)

Uncured

Specific Gravity @25oC, g/ml(ASTM D1475)..... 1.38-1.42

Tack-free Time (ASTM C979)30 minutes

Cured - Physical

Application Temperature35°F – 100°F (2°C to 38°C)

Service Range-15°F – 180°F(-26°C to 82°C)

Tensile Strength (ASTM D412) 275-363 psi (1.59 MPa)

Tensile Elongation (ASTM D412) > 600%

Joint Movement (ASTM C719) +/- 50%

ShrinkageNo visible shrinkage after 14 days

Durometer Shore A (ASTM C2240)A 45-50

Adhesion-in-Peel (ASTM C794).....40-50pli

Tear Strength N/mm(ASTM D624) 7-9

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surface interfaces 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 substances 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 MG* is applied using high quality, professional sausage caulking gun available through any Miracote distributor. Do not puncture sausage until the 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 MG* sausages to a moderate temperature, as necessary.
- Regularly check width to depth ratio and monitor consumption to ensure correct application rates are obtained.
- If tooling is required, perform within 1-15 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.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 35°F (2°C) and rising during placement for most common applications. *MiraFlex Hybrid Sealant MG* technology can allow for more extreme application temperatures, but meticulous caution and practice is crucial when those conditions exist.

LIMITATIONS

- Treated wood requires a minimum of six months' cure prior to application in accordance with APA guidelines.
- When applying subsequent coatings and paints, adhesion testing and verifying compatibility are required. If required, seed with fine silica sand immediately after tooling to create a mechanical bond interface. Brush away any loose sand prior to coating application.
- Maximum joint movement must not exceed 50%.
- Depth of *MiraFlex Hybrid Sealant MG* 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 times 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.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defects. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which under Crossfield examination shall disclose to Crossfield's satisfaction to be thus defective.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



**Miracote Product Line
Crossfield Products Corp**

www.miracote.com

East Coast Office
140 Valley Road
Roselle Park, NJ 07204
P: (908) 245-2808

Central Office
128 Industrial Drive
Cibolo, TX 78108
(210) 888-0449

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA 90221
P: (310) 631-6594



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