



MiraFlex Hybrid Sealant SL

Product Technical Data Sheet

MiraFlex Hybrid Sealant SL is a single component, low viscosity, self-leveling sealant and adhesive formulated from unique hybrid STPE polymer chemistry. This versatile elastomeric sealant contains no solvents, silicone, isocyanates, or other hazardous raw materials. Due to its unique moisture-cured formulation, *MiraFlex Hybrid Sealant SL* develops into a highly durable, flexible joint sealant with excellent adhesion without the need for any primers and is unaffected by wet or damp surfaces.

MiraFlex Hybrid Sealant SL is ideal for use with most common building materials including concrete, masonry, glass, metal, wood, and vinyl. Meets Federal specification TT-S-00230C, Type I, Class B, ASTM C-920, Type S, Grade P, Class 25, Use T2, M, O, and Canadian Standard CAN 19.13-M-82, and Army Corps of Engineers CRD -C-541, Type 1, Class B.

WHERE TO USE

- Interior and exterior – above grade.
- Horizontal joints and detailing applications only.
- Seal control joints, isolation joints, horizontal penetrations.
- For use when detailing cracks.
- Use to seal joints and gaps between dissimilar substrates.
- Perimeter and changes of plane in mechanical equipment rooms.
- 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.

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.
- Excellent resistance to aging and weathering.
- Outstanding adhesion 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 most latex-based paints.
- Ideal for use in level horizontal 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 sausage 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, 2-Gal Pails*

Available only in Limestone Gray

*Pre-blend for 1-2 minutes if material has aged a few months,

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).

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

Uncured

Viscosity	30,000 cps +/- 15,000cps
Brookfield RVF TF Spindle, 4 RPM, 73°F (23°C)	
Tack-free Time	60 minutes
Odor	Mild Ester Smell

Cured - Physical

Application Temperature	35°F – 100°F (27°C to 38°C)
Service Range	-40°F – 200°F (-40°C to 93°C)
Volatile Organic Content.....	8 g/l
Tensile Strength (ASTM D412)	120 psi (0.83 MPa)
Tensile Elongation (ASTM D412)	>300%
Joint Movement (ASTM C719)	+/- 25%
Shrinkage	No visible shrinkage after 14 days
Durometer Shore A (ASTM C661)	31
Adhesion-in-Peel (ASTM C719)	25 pli
Tear Strength (ASTM D624)	55 pli
Volatile Organic Content (ASTM D2369)	<16 g/l
Stain & Color Change (ASTM C510)	No change

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All horizontal joint 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 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 SL* 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. No tooling is required due to its self-leveling formulation.

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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.
- Precondition new and existing concrete substrates with MiraPrime Aqua-Blok XL to minimize the potential for efflorescence migration which can undermine adhesion of sealants and coatings.
- 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 SL* sausages to a moderate temperature, as necessary.
- Prior to use, pre-blend *MiraFlex Hybrid Sealant SL* packaged in 2-gallon pails if the manufacturing date on the label indicates that a few months have passed, and settlement may have likely occurred.
- Regularly check width to depth ratio and monitor consumption to ensure correct application rates are obtained.
- 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 40°F (4.4°C) and rising during placement for most common applications. *MiraFlex Hybrid Sealant SL* technology can allow for more extreme application temperatures, but meticulous caution and practice is crucial when those conditions exist.
- Newly placed concrete must be allowed to cure a minimum of 72 hours prior to the application of *MiraFlex Hybrid Sealant SL*.

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. If required, seed with fine silica sand immediately after tooling to create a mechanical bond interface. Prior to the application of subsequent materials brush the surface of the seeded sealant to remove any loose sand.
- Maximum joint movement must not exceed 25%.
- Depth of *MiraFlex Hybrid Sealant SL* must not exceed ½" (12.7 mm); minimum depth must be ¼" (6.3 mm).
- 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.

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.



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