



# CPC Hybrid Sealant

## Product Technical Data Sheet

*CPC Hybrid Sealant* is a single component, multi-purpose, construction sealant formulated from unique hybrid STPE polymer chemistry. This versatile elastomeric sealant contains no solvents, silicone, isocyanates or other hazardous raw materials. This highly durable, flexible and moisture-cured sealant develops excellent adhesion without the need for any primers and is unaffected by wet or damp surfaces.

*CPC Hybrid Sealant* is ideal for use with most common building materials including concrete, masonry, glass, metal, wood and vinyl. Meets Federal specification TT-S-00230C, Type II, Class A, ASTM C-920, Type S, Grade NS, Class 25, Use NT, O, A, M, G, and Canadian standard CAN/CGSB 19.13-M87.

### 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.

### ADVANTAGES

- Environmentally friendly – solvent and isocyanate free.
- Fast tack free and final cure times.
- Low temperature gunnability – 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.
- Qualifies for LEEDS credits.
- Paintable with most latex-based paints.
- Good adhesion to Kynar 500®. (Trademark of Arkema Inc.)
- Ideal for use in horizontal, vertical and overhead joints.

### THEORETICAL YIELD PER CARTRIDGE

1/4" x 1/4"	24.8 LF
1/2" x 1/4"	12.5 LF
3/4" x 3/8"	5.5 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

Standard disposable 10.3 fl. oz. plastic cartridges  
Available only in Limestone Gray

### MIX RATIO

Single component – no mixing.

### SHELF LIFE AND STORAGE

One year from the date of manufacture product remains unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

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

#### Uncured

Flow Sag or Slump	NIL
Tack-free Time	20 minutes
Extrusion Rate	400 g/min.

#### Cured - Physical

Application Temperature	-35°F – 140°F
Service Range	-40°F – 200°F
Specific Gravity	1.53
Tensile Strength	180 psi
Elongation	350%
Modulus	130 psi
Shrinkage	NIL
Durometer Shore A	35

### 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, sand-blasting 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 on 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** – *CPC Hybrid Sealant* is applied using high quality, professional caulking gun available through any Miracote distributor. Do not puncture cartridge until sealant is ready to be extruded and all preparation work has been completed. Although ideal and sound practice recommends applying to dry substrates, *CPC Hybrid Sealant* is moisture tolerant if surface becomes damp. 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.
- Precondition new and existing concrete substrates with MiraPrime Aqua-Blok XL or XLi 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](http://www.miracote.com).
- Always protect materials from excessive heat/cold and humidity, and whenever possible pre-condition *CPC Hybrid Sealant* cartridges to a moderate temperature, as necessary.
- 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. *CPC Hybrid Sealant* technology can allow for more extreme application temperatures, but meticulous caution and practice is crucial when those conditions exist.

### LIMITATIONS

- Do not use for structural glazing.
- Treated wood requires a minimum of six months cure prior to application in accordance with APA guidelines.
- Do not use in complete immersion conditions when sealant will be in direct contact with water. Encapsulate with waterproof membrane.
- When applying subsequent coatings and paints, adhesion testing and verifying for compatibility is required.
- Maximum joint movement must not exceed 25%.

### 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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**MIR.032  
CPC HYBRID SEALANT  
01-18-2019**