



## MPE-1 Sealant

### Description

MPE-1 Sealant is a high performance, single component formulation for use in interior and exterior masonry construction. It replaces silicone in most applications and outperforms polyurethane for adhesion and cold temperature installation, with a service temperature of -40° F to 200° F.

MPE-1 Sealant is a near-universal sealant for most job site applications. It provides excellent adhesion and sealing between brick, concrete, steel, copper, thermoplastic vinyl (PVC), glass, expanded polystyrene, and most common flashing membranes (rubberized asphaltic, PVC, reinforced copper, and EPDM). DO NOT USE WITH TPO.

MPE-1 was formulated as part of the TotalFlash® unitized flashing system to adhere to and seal a variety of membrane, drip edge and termination bar materials to each other and the surfaces typically found in masonry construction.

MPE-1 is an advanced modified polyether formulation that is moisture cured and qualifies as a LEED low emitting product with low volatile organic compounds (VOC). The shelf-life is up to 10 months from packaging date when kept between 60°F and 80°F and away from direct sunlight.

To assure best performance, use before the date shown on the plunger. Clean surfaces of dirt, dust, grease, oil, frost, pooled water, and other contaminants before applying.

### Benefits

- Odor free
- Paint compatible
- Excellent chemical resistance
- Silicone and isocyanate free
- Permanently elastic in a broad temperature range
- Extremely low shrinkage
- Fast curing
- Low VOC



### Physical Properties

Basic Material	Proprietary polyether polymer
Consistency	Paste
Color	Gray
Odor	Nil
Components	1
Type	Elastic
Solvent Percentage	0
Isocyanate Percentage	0
Shelf Life	10 months in unopened containers stored between 60° and 80° F (15° - 26° C)

Available in the following containers: 10.3 ounce cartridges

### Approximate Performance Properties

Tensile	274 psi	ASTM D-412
Shear Strength	156 lbf (21 day ambient cure)	ASTM D-1002
Elongation at Break	257% (21 day ambient cure)	ASTM D-412
Hardness Shore A	43	ASTM C-661
Initial Skin Forming	9 minutes	
Slump (Sag)	Zero slump	ASTM C-637
Accelerated Weathering	No cracking	PASS
Extrusion Rate (pumpability @ 40 psi, g/min)	1421 g/min	
Stain Testing	No staining	
Volatiles Content	67 g/L	

## Disclaimer

The information we provide is accurate to the best of our knowledge, but we do not assume any liability as to its accuracy or completeness. We do not guarantee that any hazards that we may mention are the only hazards that exist. User is responsible to determine the suitability of this product for user's intended application. User is responsible for determining that he can meet all applicable health and safety standards and regulations. We have no control over transportation, storage, handling and use of product and will not be liable for any damages resulting from their use.

## Warranty

Manufacturer warrants that our products are manufactured and conform to strict quality assurance specifications for up to ten months of the date of manufacture. Improper use of storage may void warranty. For more information, please refer to the Mortar Net Solutions™ website: [www.mortarnet.com](http://www.mortarnet.com).

The CavityComplete™ Concrete Masonry Unit (CMU) Wall System excludes the masonry veneer and concrete masonry units. A detailed list of the components is available at [www.CavityComplete.com](http://www.CavityComplete.com).