



# PERMA • CRETE®

A  
Division  
of Quality  
Systems, Inc.

## POLAR • SET & POLAR • GRIT MATRIX MIX

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### PRODUCT DESCRIPTION

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Polar•Set Matrix Mix is an extremely high early-strength concrete compound with a blend of special cements and additives. Available in 40#/18.2 kgs. bags; white only. Each bag must be mixed with 1 to 1 1/2 gallons of Matrix Bonding Additive.

#### USES

Bonds securely to unpainted concrete or masonry surfaces such as driveways, pool decks, tennis courts or vertical walls. May be used on various interior surfaces. Also used to repair cracked, chipped, spalled and broken concrete walks, curbs, loading docks, cement tile roofs, bridge decks and airport runways and aprons.

#### ADVANTAGES

Feathercoats easily. Non-shrink, can be varied in thickness up to two full inches. Sets in 10 - 30 minutes depending upon ambient air temperature. Open to foot and vehicular traffic in 1 - 6 hours depending upon. Dry ambient air temperature. Design strength exceeds ASTM-C-387 for High Early Strength Concrete.

### TECHNICAL DATA

**NOTE: The only difference between Polar-Set & Polar-Grit Matrix is the addition of #16 grit, coarse sand to Polar-Grit, a Matrix that's primarily used on building exteriors.**

#### CHARACTERISTICS:

Color: White  
Set Time: 10-30 Minutes

#### Horizontal Applications

Spread Rate: 100 Sq. Ft. – Skim Coat  
(Per Bag)\* 140 Sq. Ft. – Texture Coat  
\*Applies to smooth concrete

#### Vertical Applications

Spread Rate: 80 Sq. Ft. – Skim Coat  
(Per Bag)\* 80 Sq. Ft. – Texture Coat  
\*Applies to smooth foam

Mix: Cement/Additives  
Solvent: Water  
Wt. per Bag: 40lbs.  
Compression: 24 Hrs., 4800psi  
Compression: 28 Days, 6700psi  
Flexural: 28 Days, 1835psi  
Shrinkage: 28 Days, None  
Storage: 40°-90°F Dry

**NOTE: Perma-Crete® is approved and warranted for vertical applications on Masonry, Concrete, or ICF only, which are in accordance with ICC report ESR-1637, including architectural details which may be framed, sheathed, and covered with expanded polystyrene board or cement board.**

### PRODUCT APPLICATION

#### CONCRETE/MASONRY

Allow new concrete to cure at least 7-10 days. Old concrete surfaces must be solid. Holes, cracks, and spalled areas must be filled or patched.

#### PREPARATION

Surface must be clean, dry and free of dirt, grease, oil or other substances which could affect adhesion. Non-porous surfaces should be etched with muriatic acid, rinsed thoroughly and allowed to dry.

#### APPLICATION

Apply when surface and air temperatures are between 20°F - 50°F and rising under dry atmospheric conditions. ALSO: See separate Installation Procedures for further instructions. Mix with Matrix Bonding Additive per instructions. Parge low and pitted areas with squeegee skim coat. Spray texture coat with air compressor and hopper gun. Hand trowel to the desired finish. Seal with two coats of Perma• Seal Sealer above 50°F.

#### CLEAN-UP

Clean application tools and equipment with water periodically throughout the application.