

# CEMPOL ACRYLIC SUPER

## ACRYLIC CEMENT MORTAR MODIFIER AND BONDING AGENT

**CEMPOL ACRYLIC SUPER** is a water dispersion of an architectural grade acrylic latex specifically designed for modified portland cement compositions. Mortar modified with **CEMPOL ACRYLIC SUPER** has improved physical strength, and superior adhesion to old concrete, masonry, brick, and many other surfaces.

**CEMPOL ACRYLIC SUPER** can be used as a primer for **Repcon S, Repcon SHB, Repcon Patch, Repcon SR-VO** repair products.

### PRIMARY APPLICATIONS

- Toppings, patches and leveling course
- Thin sets, terrazzo, stucco and bonding slurries
- Repairs utilizing spray or fill coats
- General reconstruction work
- Repairs to precast structural members
- Architectural panels, bridge decks and highway repairs

### FEATURES / BENEFITS

- Easy to use - single component
- Improves bond strength
- Increases durability under freeze/thaw cycling
- Reduces cracking through increased mortar flexural strength
- Increases mortar wear resistance under rubber wheeled traffic
- Increases mortar tensile strength
- More impermeable
- Used as a curing membrane
- Can be used internally and externally

### SPECIFICATIONS / COMPLIANCES

- **CEMPOL ACRYLIC SUPER** meets ASTM C1059-86, Standard Specification for latex agents for bonding fresh to hardened concrete, Type II.
- **CEMPOL ACRYLIC SUPER** is classified by The American Concrete Institute as a non-reemulsifiable bonding admixture.

### PACKAGING

**CEMPOL ACRYLIC SUPER** is packaged in 5 or 20 Liter pails and 210 Liter drums .

### TECHNICAL INFORMATION

#### Typical Engineering Data

#### **Physical Properties of CEMPOL ACRYLIC SUPER**

Appearance	:	White Liquid
Solid Content	:	47 +/- 1.0%
SG at 25 C	:	1.05
pH	:	9.5 to 10.5

#### Typical Results of CEMPOL ACRYLIC SUPER

Modified Portland Cement Mortar

#### **Compressive Strength ASTM C109**

50 mm cubes

3 days	3,000 psi (21 MPa)
7 days	4,000 psi (28 MPa)
28 days	5,000 psi (34 MPa)

#### **Flexural Strength ASTM C-78**

28 days	1,450 psi (10 MPa)
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#### **Bond Strength ASTM C-1042**

14 days	1,200 psi (8 MPa)
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#### Typical Mix Design

Cement	:	43 Kg
Sand	:	136 Kg
CEMPOL ACRYLIC Super	:	10 Ltrs
Water	:	9 Ltrs

### COVERAGE

**CEMPOL ACRYLIC SUPER** will cover 6 - 7 m<sup>2</sup> / Liter as a bonding agent and 4 m<sup>2</sup> / liter as a curing compound.

### DIRECTIONS FOR USE

**Surface Preparation** - The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete.

**Note** : Acid etching is not acceptable. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. Allow the concrete surface to begin drying.

All concrete must possess an open surface texture with all curing compounds and sealers removed. All areas should be pre-wetted to

reduce moisture loss. Do not place product on standing water.

**Bonding** - for bonding toppings with this product, After the surface has been prepared, prime all areas before the topping is applied. Follow mixing and placing instructions listed below. Place the topping on the primer while it is tacky and before it dries out.

**Mixing** - Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. Add the appropriate amount of **CEMPOL ACRYLIC SUPER** and water for the batch size and then add the dry material. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

**Placement** - Discharge material from mixer and place on to floor.

**Topping Application** - For patching, spread with a trowel or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand trowelling. On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

**Finishing** - Finish the repair material to the desired texture. Typical texture is a broom or sponge float finish though mortars made with **CEMPOL ACRYLIC SUPER** can be steel trowelled. Do not add additional water to the surface during the finishing operation.

**Curing** - All cement products must be adequately cured. Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours followed by use of **CEMPOL ACRYLIC SUPER** as a curing compound.

**Note:** Do not use a solvent-based curing compound on latex modified mortars.

#### **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

#### **PRECAUTIONS / LIMITATIONS**

- No heavy traffic until the repair has cured.
- Do not use in ready mix concrete.
- Use of this product in conjunction with air entrained cement/concrete or with other admixtures may significantly increase total entrained air content. Testing is strongly advised.

#### **QUALITY STATEMENT**

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.