

# CEMTEC SILICONE WATERPELLER

## SILICONE WATER REPELLENT FOR MASONRY

**CEMTEC SILICONE WATERPELLER** is a liquid compound which penetrates the pores of treated materials and provides durable and highly effective water repellent protection. **CEMTEC SILICONE WATERPELLER** generally dries tack-free in two to four hours, (21°C). It protects masonry surfaces from moisture absorption, dirt and dust. **CEMTEC SILICONE WATERPELLER** is available in two standard formulations: Formula "S" - Silicone solids in a solvent system and Formula "W" - Siliconate solids in a water based V.O.C. compliant system.

### PRIMARY APPLICATION

#### Formula "S"

- Exterior brick, concrete, mortar and stucco
- Interior masonry joints and concrete

#### Formula "W"

- Limestone, precast concrete panels
- All calcareous building materials
- Plaster, granite, perlite

### FEATURES / BENEFITS

- Transparent
- Keeps water out but lets dampness escape
- Minimizes efflorescence
- Reduces deterioration by reducing freeze/thaw damage
- Reduces masonry cleaning costs
- Protects with one application

### SPECIFICATIONS/COMPLIANCES

**Formula "S"** - 5% Silicone solids - complies with Federal Specification SS-W-110c. state and municipal specification.

**Formula "W"** - 3% Siliconate solids - complies with requirements of Indian Limestone Institute.

### TECHNICAL INFORMATION

#### Typical Engineering Data

#### TEST RESULTS

#### Water Absorption of Treated Masonry\* Percent Water Absorption

Masonry Material	Exposure	Untreated	Treated
Common Brick	24 hours	16.37	.00
Common Brick	168 hours	16.94	.01
Mortar Cubes	72 hours	9.05	.65
Indiana Limestone	72 hours	3.77	.16

\* All Samples given a 5 second dip in **CEMTEC SILICONE WATERPELLER** cured for 40 hours and then immersed in 6 mm water.

**Appearance** - **CEMTEC SILICONE WATERPELLER** is a clear liquid which dries transparent. After placing, the color of the concrete may initially appear darker than the surrounding concrete. As the sealer cures and dries out, the treated concrete will have a natural appearance in dry weather. Treated concrete will bead water.

### COVERAGE RATES

One liter **CEMTEC SILICONE WATERPELLER** will treat 1.8-4.9m<sup>2</sup> of masonry or concrete, depending on the porosity of the surface.

### PACKAGING

Formula "S" is packaged in 210 liter drums and 20 liter pails.

Formula "W" is packaged in 210 liter drums and 20 liter pails.

### DIRECTIONS FOR USE

**Surface Preparation** - Cracks and open joints must be tuck-pointed and all loose particles, dirt, grease and wax removed from the surface. Silicone solutions will not hide or correct structural defects such as cracking. Preferred application is by low pressure spray of 10 psi (0.07 MPa) nozzle pressure. In vertical work a run down of 152-305 cm is necessary. Avoid atomization - flood the surface.

#### **Placement:**

Formula "S" - Must be applied in one liberal coat to dry surfaces only. For best results application should not be made if rain is expected within the next 6 hours.

Formula "W" - Must be applied in one liberal application to either dry or damp surfaces. For best results application should not be made if rain is expected within the next 6 hours.

**Mixing** - **CEMTEC SILICONE WATERPELLER** is ready to use and requires no pre-mixing.

### SPECIAL INSTRUCTIONS

Exceptionally porous material, such as block, should be filled with a block filler such as FINISH COAT before treating with **CEMTEC SILICONE WATERPELLER**. On very dense surfaces, such as hard kilned or glazed brick or tile where the run down is too rapid, keep the surface wet with the **CEMTEC SILICONE WATERPELLER** for as long as is practical for maximum protection.

## **PRECAUTIONS / LIMITATIONS**

- Formula “S” is made from silicone resins and special solvent blends and is flammable. All areas being treated should be well ventilated. Keep away from open flames. Prolonged breathing of solvents should be avoided. If large areas are to be sprayed, use respirators and always work upwind. Overspray or splashing on windows with Formula “S” should be removed immediately with mineral spirits. After curing use lacquer thinner to remove the resin film. On dense materials, like granite or silica pebbles effectiveness may be reduced due to the low absorption rate of these materials. **CEMTEC SILICONE WATERPELLER** may leave a wet look on some stones so it must be tried on a small, inconspicuous area first.
- If HVAC intake ducts will distribute solvent odor into adjoining occupied areas of the building, these should be closed in the application area
- Formula “W” is made from siliconates and is highly alkaline. Goggles and rubber gloves should be worn. Avoid the use of aluminum pumps, piping and application equipment. Avoid contact with window glass or aluminum window sections. Overspray with Formula “W” MUST be removed at once with clear water. If allowed to dry, it will etch aluminum and glass.
- Protect shrubs, grass and other vegetation from silicone solutions.  
Do not traffic until the product has cured and dried.

### **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.