



WATERGUARD CP - 511

Crystallization Cementitious Waterproofing.

Description: -

Waterguard CP-511 Crystalline Waterproofing is a capillary waterproofing formulation of proprietary blends of chemicals, quartz sand and cement. The chemicals contained in the crystalline waterproofing materials require the presence of moisture to set off a chemical reaction from within the matrix of the concrete. When combined with “free lime”, these chemicals form long chained complexes, which crystallize and penetrate deeply into the capillaries of the concrete, eliminating the migration of water. Independent tests show penetration up to 2" (51 mm) in 28 days. The crystalline process is continuous as long as moisture is present in the concrete, significantly reducing the concrete’s natural porosity by filling small voids and cracks caused by shrinkage. The concrete is still able to breathe as the crystalline does not create a vapor barrier. If no moisture is present, the crystals will lie dormant until moisture reappears and then will reactivate to seal the cause of the leakage. Waterguard CP-511 is applied as a slurry coat on vertical interior or exterior (CIP) concrete or (CMU) block structures to create a waterproofing barrier from within the substrate. It can be applied by “broadcasting” the dry powder onto horizontal concrete surfaces at the time of initial set and power- or hand -floating the powder into the green concrete. Once the reaction has taken place and the formulation has crystallized, these coatings are highly resistant to salts (chloride penetration), alkalis and seawater. Because of

the density of the crystalline chain, the concrete is able to withstand mildly acidic conditions to provide protection in wastewater treatment plants as well as superior protection against frost, Damage and may also be used in sealing the joint between new and existing concrete.

Basic Uses:-

Few products in the waterproofing industry offer the total protection to the concrete itself that Waterguard CP-511 provides. Where moisture is present, there is always the danger of damage not only to the concrete but to the steel as well as interior finishes. No special below-grade protection is necessary. Waterguard CP-511 provides fast, economical waterproofing for foundation walls and floor slabs, suspended or in-ground pools, and protects against spalling due to oil, salt and freeze/thaw action in parking garage floor applications

Features & Benefits:-

- When applied to inside or outside surfaces, Waterguard CP-511 integrates and combines with the concrete from within, thus forming a barrier which cannot easily be damaged.

Waterguard CP-511
Capillary Waterproofing Formulation



- The crystalline products tolerate water so there is no need to continually dry the surface before application, unlike most asphaltic, bitumen or solvent based resin systems.

Coverage: -

1.3 kg/m² or 2.4 lb/yd² 200 ft² (18.6 m²) per pail in 2 passes

Horizontal dry shake method: 1 kg/m² or 1.85 lb/yd²

Packaging: 20 Kgs **Cementone** Bag.

Storage: Dry, Frost Free out of direct sunlight

Shelf Life: 12 Months when storage in covered area

CAUTION:-

- Freshly applied crystalline waterproofing systems contain water and they must not be exposed to freezing temperatures. At the other extreme, the systems must be protected from drying out too quickly in hot or windy conditions.
- Avoid prolonged contact with the skin. To minimize the risk of irritation from these alkaline materials, use rubber gloves.
- Do not mix with latex modified or hydraulic cement mortars.
- Do not paint surfaces treated with Waterguard CP-511 until 21 days after application, and first apply muriatic acid and water (1:5) to neutralize the surface chemicals.
- Not for use in potable water applications.

Warranty:-

Cemetone warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Cementone makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Cementone Products. Cementone sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Cementone Products proven to be defective, and Cementone shall not be liable for any loss or damage.

TYPICAL PHYSICAL PROPERTIES

Property	Description
Type	Crystalline Waterproofing
Color	Gray
Solid	1
Application	Brush
Curing time	24hrs
Thickness	2.4 lb/yd ² (1.3 kg/M ²)
Comprehensive Strength	3 Days 4145 psi 7 Days 5560 psi 28 Days 6970 psi
Water Permeability	6.6 x 10 ⁻¹² K, cm/sec

