



## ORCMW (Crystal Matrix Waterproofing)

### Product Description

Penetrating CMW is water based reactive and nonreactive crystal matrix growth waterproofing material used to treat concrete slabs and provide permanent waterproofing and strength.

CMW becomes an integral part of the concrete completely waterproofing and dramatically increasing the compressive strength of the in-place concrete structure. The product solidifies the various component part of the concrete into one solid mass via the development of its crystal growth thus increasing density and making the concrete permanently waterproof, tougher and harder. The CMW will reduce hydrostatic pressure, provide better bonding for coatings and increase the hardness from 25% to 40% overall.

### CMW Performance & Protection

CMW incorporates a reactive silicate and non-silicate based multifunctional ("stand-alone") crystal growth matrix that also reacts with hydroxides (portlandites) and tricalcium silicate components within the pore matrix structure of the concrete. This reaction creates a calcium silicate hydrophilic particle grain with a non-diluent property that will absorb penetrating liquids and substantially hinder and eliminate the passage of liquids through the concrete structure.

### Crystal Matrix Advantage

- Parking Decks
- Airport Runways/Hangers
- Bridges
- Tilt-up Constructions
- Water Retaining Structures
- Sports Arenas
- Distribution Centers
- Schools Pharmaceutical Plants
- Meat Processing Plants
- Convention Centers
- Malls

The product is a clear low viscosity liquid that penetrates concrete and masonry building materials providing protection, strengthening and preservation.

### Warranty

The technical data and any other printed information furnished by Enhanced Flooring Products LLC (EFP LLC) are true and accurate to the best of our knowledge. ORCMW conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. EFP LLC makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

11/08

### Penetrating CMW

- \* Meets USDA regulations
- \* Eliminates hairline cracks and curing cracking in new concrete
- \* Assists in providing a uniform cure on new concrete via chemical reaction
- \* Provides a complete moisture barrier
- \* Deeply penetrates concrete forming an efficient pore block within the concrete structure
- \* Provides surface waterproofing and structural waterproofing through the entire concrete slab
- \* Neutralizes alkali during the reaction delivering it to the surface for removal
- \* Protects surface coatings from capillary rise of moisture and vapor pressure
- \* Acts as an adhesion promoter for surface applied coatings
- \* Used in joint to stop water pressure from damaging joint material
- \* Surface will take color stain (acid stain)
- \* Resistant to penetration of grease, oil, acids, and salts

### Technical Data

Shelf Life – 18 Months in Unopened Containers

Bonding	ASTM C-3359	28% Increase
Weathering	ASTM G-23	no effect
Freeze Thaw	ASTM C-666	no effect
Curing	ASTM C-309	no effect
Hardness Abrader	CS-17	Wheel, 1000g
Hardening	ASTM C-42	40% increase/14 days
Specific gravity	1.06	
Freeze Temperature	25° C	
Boiling Point	214° F	

### Hydrostatic Pressure

This crystal growth action provides waterproofing even under hydrostatic head pressure and eliminates vapor pressure applied coatings such as deck coatings, urethane coatings, epoxy coatings and vinyl floor coatings from effects of capillary moisture or vapor pressure.