



W. R. MEADOWS

SEALIGHT

Cem-Kote™ CW Plus Capillary/Crystalline Waterproofing



ANSI/NSF Standard 61 Drinking Water System Components

FEATURES

- **Approved ANSI/NSF Standard 61 – Barrier Materials**
- Negative or positive side waterproofing
- Permanently active (in-depth)
- Seals cracks up to 0.3 mm
- Fast cure waterproofing (48 hours)
- Approved for potable water tanks (>10,000 USG – 38m³)
- Waterproofs highly porous concretes
- Non-flammable
- One component (add water only)
- More economical than competitive products
- Inorganic & Environment friendly
- Long working time – 30 minutes plus

DESCRIPTION

Basic Use

Cem-Kote CW Plus is a crystalline (capillary) in-depth waterproofing for new or existing water storage and water treatment concrete structures, digesters, clarifiers and utility vaults. **Cem-Kote CW Plus** is suitable for waterproofing for retaining walls, basements, concrete slabs, swimming pools and other concrete structures.

Composition and Materials

Cem-Kote CW Plus is a one component (add water only), Portland cement based coating (slurry) containing silica based materials. Under water pressure (negative or positive), the soluble silicate penetrates (due to osmotic pressure) into the substrate, where it reacts with lime and forms insoluble calcium silicate crystals which “plug” the capillary pores and waterproof the concrete while allowing the water vapour to pass.

Limitations

Cem-Kote CW Plus is a fast setting material. Under normal conditions it should be applied within 15-30 minutes after mixing. Mix only the amount of material, which can be applied within this period of time. Do not apply **Cem-Kote CW Plus** when the temperature is expected to be below 4°C (40°F) or when rain is imminent. The proper surface preparation is essential for successful bond of **Cem-Kote CW Plus**.

Health and Safety

Cem-Kote CW Plus is non-toxic and non-flammable. Your skin might be sensitive to cement. We recommend use of rubber gloves. Avoid contact with skin. If contact occurs, flush immediately with water. Seek medical advice if irritation occurs. Harmful if digested. Keep product out of reach of children. **FOR INDUSTRIAL USE ONLY.** Consult MSDS for additional information.

Colour

Industrial Grey and Light Grey.

Packaging

Cem-Kote CW Plus Premix is a one component material packed in 22.7 kg (50 lbs.) bags.

Yield

Cem-Kote CW Plus Premix yields 13.2 L (0.47 ft³) per unit. The theoretical coverage per coat is 0.7 - 0.75 kg/m² (1.25 - 1.4 lb/ yd²). The rate of application varies depending upon the actual end use, as specified.

The actual coverage will depend on surface roughness and the thickness applied. The applicator must carry out a sample application to determine the actual coverage for the given substrate and application rate.

Storage and Transportation

Cem-Kote CW Plus stored on pallets in a dry, cool area has a shelf life of 12 months. Packaged 55 bags per pallet.

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TECHNICAL DATA

| | |
|---|--|
| Compressive Strength (ASTM C109 Modified) | 51.7 – 62.1 MPa (7,500 – 9,000 psi) |
| Modulus of Rupture (ASTM C348) 28 days | 8.9 – 10.2 MPa (1,290 – 1,540 psi) |
| Bond Strength with Concrete (Pull off test) | Greater than the tensile strength of the concrete substrate |
| Water Vapour Permeance 3 mm (1/8") thickness | 1.8 metric perms |
| Hydraulic Permeability | Concrete block coated with Cem-Kote CW Plus withstands 156 m (500 ft) waterhead pressure |

INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Contact Technical Service for information specific to your application.

Surface Preparation

Remove all loose and deteriorated concrete, laitance, dust, dirt and efflorescence. High pressure sandblast or waterblast (minimum 6000 psi) should be used.

The active water leaks must be stopped using MEADOW-PLUG™ and deeper surface deterioration repaired with MEADOW-CRETE® OV (overhead) from W. R. MEADOWS. Leave the surface of MEADOW-CRETE OV rough and wash it thoroughly with high-pressure water before application of **Cem-Kote CW Plus**. **Cem-Kote CW Plus** should be applied within 48 hours after the surface repair.

Reinforcing Steel

Remove all loose rust from any exposed reinforcing steel and apply two coats of W. R. MEADOWS' PATCH-PRIME rust-proofing.

Crack Treatment

Any existing cracks must be treated separately using **Cem-Kote Flex ST** or **Cem-Kote Flex Plus**

Mixing

Mix one bag, 22.7 kg (50 lbs.), with approximately 5.0 - 6.5 L (1.3 - 1.7 U.S. gallon) of water, depending on required consistency. Use a drill (400 – 600 rpm) with a mixing paddle. Gradually add the dry material into water and mix until a smooth and lump free mix is obtained. Do not over mix. Adjust the water for brushable consistency or a stiffer consistency for trowel application.

Application

Apply a base coat of **Cem-Kote CW Plus** in slurry consistency at a uniform rate of 0.7 - 0.75 kg/m² (1.25 - 1.4 lb/ yd²) using appropriate compressed-air spray equipment, stiff masonry brush, or stiff broom. Apply the second coat of **Cem-Kote CW Plus** at a uniform rate of 0.7 - 0.75 kg/m² (1.25 - 1.4 lb/ yd²) after base coat has reached initial set but is still "green" (tacky).

When layers over 3 mm (1/8") are required, apply a thin layer of **Cem-Kote CW Plus** first as a bonding agent by brush or broom. Apply second, stiffer consistency, coat of **Cem-Kote CW Plus** into the wet slurry by trowel. Keep wet edge. Do not build up a layer thicker than 6 mm (1/4").

In new construction, **Cem-Kote CW Plus** is dry-sprinkle applied onto the surface of the freshly poured slabs (after the concrete starts to reach initial set) and is power trowel finished.

Follow current manufacturer's Guide Specifications, Application Instructions and the specified rate of application.

Curing

Moist cure **Cem-Kote CW Plus** for 4 days. Protect the surface from rapid drying. When working under tarps at freezing temperatures, avoid using propane heaters. Electrical heaters should be used to prevent "carbonation" of **Cem-Kote CW Plus**.

Clean Up

All tools and equipment must be cleaned with water immediately after use. Cured material must be removed mechanically.

MAINTENANCE

None required.

WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For details contact Technical Service.

TECHNICAL SERVICE

For technical advice, specification assistance, and application advice, contact Gemite Technical Service at 905-672-2020.

Short Specification

The reactive capillary/crystalline waterproofing shall be **Cem-Kote CW Plus** as manufactured by Gemite® Products Inc., (905-672-2020). It will meet all the Technical Data specified in the current **Cem-Kote CW Plus** Product Data Sheet.

MANUFACTURER

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