



Manufacturers of Professional Grade Cement & Construction Products Since 1967

WP-002--REV.1

CGM FWP FOUNDATION WATERPROOFING

DESCRIPTION:

CGM FWP is a one-part polymer modified, decorative, cementitious and waterproof coating that is designed for use on concrete and masonry surfaces. CGM FWP is specifically formulated for use as a waterproof coating that will resist both positive and negative hydrostatic pressure.

ADVANTAGES:

- Excellent bond strength for superior adhesion
- Excellent freeze/thaw resistance
- Thermal expansion similar to standard concrete
- Resistant to deicing salts and water
- Excellent waterproofing properties
- Resistant to ultraviolet light

USES & APPLICATIONS:

1. Providing a protective, decorative textured finish over concrete and masonry surfaces.
2. Providing a breathable coating for vertical and overhead applications on interior and exterior surfaces, above and below grade
3. Waterproofing brick, block and porous stone
4. Eliminating rubbing by filling in voids, pit marks and small holes
5. For use in basements, tunnels, cisterns, reservoirs, foundations and machinery pits

MIXING: CGM FWP may be mixed by manual or mechanical means.

Manual mixing: Mix in the original container or use various size buckets and a mixing paddle. Remove the cement from the pail. Add water to the pail and then add the CGM FWP. Mix for 5 minutes or until a batter consistency is achieved. Let stand for 5 minutes and then re-temper and add up to ½ pint of water if needed.

Mechanical mixing: Mix in a 5-gallon pail using a heavy-duty slow speed drill (400-600 rpm) with a mixing paddle. Pour the measured water into the mixing container and then add the CGM FWP. Pour 1 & ½ quarts of water for every 10 lbs of CGM FWP into a mixing container.

While mixing, add 1 unit of CGM FWP. Mix to a consistency of a batter making sure that there are no lumps. Do not mix for more than 2 minutes.

RECOMMENDATIONS:

- Apply only on a clean, sound and properly prepared substrate. Surface should be damp but free of standing water (SSD).
- Minimum ambient and surface temperature are 50 F (10° C) and rising at the time of the application. Do not apply below 45° F (7 C) within 12 hours.
- Seepage or leakage should not be present from the substrate at the time of the application.
- The maximum application thickness is 1/16" (25 mils) per coat. Greater thickness may result in cracking
- Do not store CGM FWP in areas with high humidity
- Do not re-temper or add any admixtures
- Do not apply to traffic bearing substrates

SURFACE PREPARATION:

The existing concrete surface must be clean and sound. Remove all unsound concrete, paint, dirt, grease, oil, surface coatings, laitance and any other bond-inhibiting material from the surface. This may be achieved by high pressure water washing or by wire brushing and scraping. If any patching is required, patch with PERMA PATCHING CEMENT prior to coatings.

Also, to stop any active after leaks, use PERMA WET PLUG before coating. Non-moving cracks should be routed out and filled with PERMA PATCHING CEMENT prior to coating. CGM FWP will not bridge moving cracks.

The use of a primer before the application of CGM FWP is not necessary.

APPLICATION:

All surfaces should be dampened before beginning the application of CGM FWP. Re-dampen the surface immediately prior to coating. The surface should be saturated surface dry (SSD) with no puddle water.

For most applications use a 6" masonry brush; however, for a more decorative finish, use a 6" nylon brush.

Apply the CGM FWP into the properly prepared surface. Scrub the material into the damp wall in order to fill all pores. Brush strokes should be in one direction, horizontal. If the CGM FWP is not spreading on smoothly and easily, the surface must be re-dampened. For uniform appearance, finish off with light strokes that blend into the coated areas. Remember to always maintain a wet edge. The first coat should be applied at a thickness of 1/16" (25 mils). After allowing to cure for 24 hours, pre-wet the first coat and apply the second coat at a thickness of 1/32" (15 mils). In areas subjected to severe water pressure, the second coat should be applied at a thickness of 1/16" (25 mils). For decorative applications only two 1/32" (15 mils) coats are allowed.

CURING:

If ambient conditions cause premature drying (high temperature, low humidity, strong winds or direct sun light) then a fog spray of water must be used after the CGM FWP has hardened. The fog spray should continue every two hours until the premature drying condition has subsided. For concrete structures that hold water, reservoirs, tanks, etc, CGM FWP should be allowed to cure for 14 days before refilling with water.

WORKING TIME:

The working time for CGM FWP is approximately one hour at 70° F (21° C). Application time is dependent on temperature (shorter at high temperatures and long at low temperatures).

COLOR:

CGM FWP is available in white only.

SHELF LIFE:

When stored in original, un-opened container, one year. Rotate your stock.

PACKAGING:

CGM FWP is supplied 50 pound pails.

COVERAGE:

50lb bag will cover:

Smooth Surface	Porous Surface
1st Coat: 200-250 sq/ft	1st Coat: 180-225 sq/ft.
2nd Coat: 400-450 sq/ft	2nd Coat: 360-400 sq/ft.

STORAGE CONDITIONS:

CGM FWP must be stored between 50° F (10° C) and 95° F (35° C) in a dry area. Avoid high humidity.

PRECAUTIONS:

1. Dispose of waste materials in accordance with Federal, State and local regulations
2. The use of a dust mask, safety goggles and rubber gloves is recommended
3. Caution- contains Portland Cement which is highly caustic
4. Contains Free Silica. Do not breath the dust as inhalation may cause delayed lung injury (silicosis) and is a carcinogen
5. In case of contact, flush eyes with water. Wash skin with soap and water. Contact a physician

KEEP OUT OF REACH OF CHILDREN

TECHNICAL DATA:

Freeze/Thaw Resistance (ASM C672)	50cycles—No Scaling
Accelerated Weathering (ASTM C26)	5000 hours—No loss of Adhesion
Water Vapor Permeance (ASTM E96)	28 days—9 perms
Bond Strength (ASTM D4541)	28 days—100% concrete failure
Tensile Strength (ASTMC 190)	28 days—1000 psi
Flexural Strength (ASTM C 348)	28 days—1800 psi

GENERAL INFORMATION:

Please contact CGM, Inc. at any of the following numbers for customer service or technical assistance:

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