

1. PRODUCT NAME

CETCOAT™ Cement Based Crystalline Waterproofing System

2. MANUFACTURER

Colloid Environmental
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(CETCO)
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3. PRODUCT DESCRIPTION

CETCOAT is a two part polymer modified, chemically activated cement based system for waterproofing concrete and masonry. CETCOAT becomes an integral part of the surface by bonding and sealing through a crystallization process. CETCOAT Mixing Liquid is the bonding agent that gives superior adhesion, flexibility, and permeability properties to the system.

Basic Use: CETCOAT is applied to above or below grade concrete and masonry surfaces to protect against hydrostatic water pressure. It can be applied to either interior or exterior surfaces. Typical applications include below grade foundations, water and sewage treatment tanks, manholes, tunnels, dams and reservoirs.

Composition and Materials: When applied CETCOAT has a textured finish similar to that of concrete. CETCOAT is a proprietary blend of cements, and powder additives that are designed to penetrate concrete capillaries and create a permanent impermeable crystalline structure when activated by water. It contains no added chlorides or sodium.

CETCOAT MIXING LIQUID is a copolymer latex emulsion that is milky white in colour. Both products are non-toxic and resistant chemical attack.

Packaging: CETCOAT is packaged in a convenient five gallon pail, 35 pound kit. Each kit contains sufficient CETCOAT and CETCOAT MIXING LIQUID to cover 100 square feet at the recommended coverage rate.

Limitations: CETCOAT is not designed as a wearing surface. Apply a protective topcoat before subjecting it to traffic. Do not apply to frozen or frosted surfaces or when temperature is expected to fall below 40°F within 48 hours. Protect CETCOAT MIXING LIQUID from freezing. Allow seven days before filling tanks coated with CETCOAT.

4. TECHNICAL DATA

Applicable Standards: CETCOAT is approved for use with potable water. It is also approved by the USDA for food plants.

Material Properties:

Adhesion 175 psi
(ASTM C 952, 75°F)
Tensile Strength 330 psi
(ASTM C 190 @100%RH)
115 psi
(ASTM C 190 @ 59%RH)
Flexural Strength 470 psi
(ASTM C 580, 75°F)
Permeability 5.2×10^{-10} cm/sec
(CRD -48-73)

*Typical values not be used in specifications.

5. INSTALLATION

Surface Preparation: The surface must be structurally sound, clean and free of dirt, oil and other contaminants including curing compounds, form release agents, old

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30/1/2004

coatings, paint and efflorescence. New concrete and masonry must also be removed. Provide an absorptive surface on all substrates including precast and formed concrete. The surface must have an open capillary system for adhesion and for optimum crystalline growth. Remove form marks and other protrusions. Concrete honeycomb cavities, joints, cracks, voids tie holes and other defects must be opened and routed to sound material. Follow the recommended methods for repairing defects as suggested on the CETPATCH Technical Data Sheet. If active water leaks are present repair following the methods suggested on the CETPLUG Technical Data Sheet. No active water leaks should be present at the time of CETCOAT application.

Mixing Instructions: Pour three quarters of the jug of CETCOAT MIXING LIQUID into the pail and begin slow speed power mixing. Slowly add the CETCOAT powder. Gradually add the remainder of the CETCOAT MIXING LIQUID to bring the consistency to a completely blended slurry. When mixing is complete do not add additional MIXING LIQUID or retemper the mix.

Application – General:

Dampen the surface with clean fresh water prior to the application. Remove any standing water. Two coats of CETCOAT should be applied for effective waterproofing. Each coat is applied at 0.7kgs per M².

Application – Brush: Load bristles of a cement masons brush with CETCOAT. Work the slurry to fill the voids and pores. The final brush strokes should be in one direction to produce an even texture and finish. Apply at the rate of 0.7kgs per M². Allow CETCOAT to cure 24 hours before applying second coat.

After 24 hours dampen surface of the first coat and apply a second coat of CETCOAT. Apply second coat in the same manner as the first coat except that the finish brush strokes should be at right angles to those of the first coat.

Application – Spray: Use air operated spray equipment capable of spraying cement based materials. Use a 3mm nozzle. On concrete surfaces CETCOAT is applied in two coats. The first coat is light and followed immediately by a second heavier coat. Total coverage for the two coats should be 1.4kgs per M².

On concrete masonry surfaces apply the first coat at 0.7kgs per M². Before initial setback brush the surface with a Mason's brush or broom to fill voids and ensure uniform coverage. Allow the first coat to cure for 24 hours. Dampen the surface and spray on the second coat at 0.7kgs per M².

Application – Broadcast CETCOAT may be applied on new horizontal applications in the broadcast method and incorporated into the concrete placement. When Visible bleed water has dissipated and concrete begins to reach initial set broadcast CETCOAT powder over the slab at the rate of 1.4kgs per M². Power trowel the surface until the CETCOAT has been fully worked into the surface. CETCOAT is not designed as a wearing surface. Apply a

protective topcoat before subjecting it to traffic.

Coverage: Coverage rates are based on average porosity concrete. Coverage rates will vary. Under normal conditions one CETCOAT kit will cover approx. 9.2M² in two coats.

Clean up: Clean application tools and mixing equipment immediately after use and between batches.

Precautions: It is mandatory that the user take the following precautionary measures to protect workers and the public.

Avoid inhalation of cement dust. Ensure adequate ventilation. Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with water. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs. Avoid ingestion of material. If ingestion occurs, contact a poison centre or physician. Additional precautions, safety information and first aid treatments are contained on the Material Safety Data Sheets.

**INDUSTRIAL USE ONLY.
KEEP OUT OF REACH OF
CHILDREN**

6. WARRANTY

Information contained herein supersedes all previously printed matter and is subject to change without notice.

All goods sold by Seller are warranted to be free from defects in material and workmanship.

The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied

warranties of merchantability or fitness.

Seller shall not be liable for incidental or consequential losses, damages, or expenses, directly or indirectly arising from the sale, handling or use of the goods, or from any other cause relating thereto, and Seller's liability limited to the replacement (in the form originally shipped) of goods not complying with this agreement or at Seller's election, to the payment of, or crediting Buyer with, an amount equal to the purchase price of such goods, whether such goods are for breach of warranty or negligence.

Any claim by Buyer with reference to the goods sold hereunder for any cause shall be deemed waived by Buyer unless submitted to Seller in writing within thirty (30) days from the date Buyer discovered or should have discovered, any claimed breach.

Materials should be inspected and tested by purchaser prior to their use if product quality is subject to verification after shipment.

Performance guarantees are normally supplied by the applicator. Expansion joints are the responsibility of others.

7. TECHNICAL SERVICES

Complete technical service is available upon request. Contact manufacturer for current data, additional installation instructions, technical information and comments, on design conditions not covered herein.

8. FILING SYSTEMS

Product brochures, specification sheets and technical information are available on request.

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