

EUCOSEAL

CEMENT-BASED WATERPROOF COATING WITH MCI™


EUCLID CHEMICAL

PACKAGING

EUCOSEAL is packaged in 25kg Polyethylene-lined bags of powder and 2 litre bottle of binder.

COVERAGE*

Light Duty:

Above grade, smooth and dry interior walls.

Brush Application: Add 2 to 2.5 litres water to the polymer; yields ± 14 litres, 9m²/kit at 1.5mm thick per coat. 2 coats required

Heavy Duty (trowel application):

Below grade interior and exterior walls with water pressure present or above grade exterior walls in direct contact with rain or standing water. Add 1 to 1.5 litres water to the polymer; yields ± 13 litres; 4m²/kit at 3mm thick

CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean any splatter or spills with water before material sets. Eucoseal is a cementitious product containing an acrylic additive, and if allowed to dry on the surface, removal becomes extremely difficult

SHELF LIFE

2 Years in original, unopened container when stored in dry conditions. High relative humidity will reduce the shelf life. Protect from freezing.

** Coverages are approximate and will depend on texture and porosity of the substrate*

DESCRIPTION

EUCOSEAL is a 2-component, heavy-duty, polymer-modified cementitious coating intended to provide a rigid waterproofing barrier which resists very high water pressure in both positive and negative side applications. This high performance Calcium Aluminate Cement-based waterproof coating has excellent resistance to Biogenic Sulphuric Acid and penetration of chloride ions. Can protect both new and existing structures from water damage.

PRODUCT CHARACTERISTICS

FEATURES / BENEFITS

- Excellent waterproofing barrier
- Effective on negative or positive side
- Excellent resistance to chloride ion penetration
- Protects rebar from corrosion
- Includes Migrating Corrosion Inhibitor
- Trowel, brush or spray applied
- High bond strength
- Self-curing
- Trafficable surface
- Excellent sulphide and sulphate resistance
- Excellent resistance to Biogenic Sulphuric Acid corrosion

PRIMARY APPLICATIONS

- Concrete and masonry surfaces
- Vertical and horizontal applications
- Base for moisture-sensitive coatings
- Machinery pits
- Basements
- Reprofilling eroded concrete
- Foundations
- Manholes
- Vaults
- Tanks
- Tunnels
- Waste water infrastructure

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Material Properties at 25 °C, 50% RH and 3mm thick (trowel application)

Property	Values at 25 °C	
Compressive Strength ASTM C109	4 Hours	22 MPa
	24 Hrs	30 MPa
	28 Days	45 MPa
Bond Strength ASTM C882	7 Days	15 MPa
Permeability 3mm thickness	Positive side	1.4 x 10 ⁻⁷ m ³ /min
Chloride Ion Permeability ASTM C1202, 3mm thickness	28 Days	Very low (<1000 coulombs)
Working Time at 25 °C	20 Minutes	

Appearance: Dark Grey (final finish and texture will vary according to chosen application method).

Reference Sample: A trial reference sample should be installed by the applicator prior to start of contract to ensure correct surface preparation, workmanship and cured appearance.

Eucoseal (4) April 2025 replaces July 2023

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DIRECTIONS FOR USE

Surface Preparation:

New concrete and masonry must be structurally sound, clean and free of dirt, oil and other contaminants. Abrade the surface to open the pores, providing an absorptive surface.

Concrete Surfaces: All cement laitance, shutter release agent, curing compound and other adhesion reducing substrates (i.e. bitumen, grease, paint, must be removed by means of wet or dry grit-blasting, chipping or grinding to expose the well bonded aggregate in the concrete.

Brick and Blockwork Surfaces: Any remaining plaster, render or other substances that could inhibit bonding must be removed back to sound substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose pointing must be routed out and the substrate cleaned thoroughly.

Any water leaks must be stopped with Vandex Plug prior to application of EUCOSEAL.

Mixing:

EUCOSEAL must be mechanically mixed using a slow speed motor and mixing blade to thoroughly disperse the ingredients. Do not aerate the mix.

Add the recommended quantity of potable water and liquid binder to the mixer as detailed below.

The dry powder must be added slowly while mixing. Never add more water to bring back the consistency after the material has begun to stiffen. Use mixed EUCOSEAL within 20 minutes.

EUCOSEAL is a two-part product consisting of 25kg powder and 2 litres of binder. Potable water requirements depending upon the method of application are as follows:

Brush Application: 25kg Powder plus 2 litres binder, and add between 2 to 2.5 litres of potable water. 1 Kit will yield 9m² in one coat at 1.5mm thick (2 coats required).

Trowel Application: 25kg Powder plus 2 litres binder and add 1 to 1.5 litres of potable water. 1 Kit will yield 4m² in a single coat at 3mm thick.

Application:

Saturate surface dry (SSD) the substrate with potable water before starting any EUCOSEAL application.

EUCOSEAL can be either brush or trowel applied. The total application thickness should be a minimum of 3mm with no pinholes or voids. The first coat must be textured whilst still plastic to form a key and must also be damp on the surface prior to application of the second coat. The first coat must not be damaged during the application of the second coat, i.e. must have completely hardened (approximately 4 to 8 hours).

Brush Application: Ensure that all cavities in the surface are filled. The product must be applied in two coats, the second coat being perpendicular to the first, up to the thickness specified. Allow a minimum of 4 hours between coats.

Trowel Application (for maximum protection and smooth finish): First a scraper coat is applied for maximum adhesion to the substrate, working from the bottom up. Ensure that all cavities in the substrate are filled in order to exclude any trapped air. The minimum thickness of 3mm should then be applied in one application.

Note: In applications where protecting against water pressure (including ground water), it is recommended that the finished thickness of Eucoseal is a minimum of 3mm. A product thickness of 3mm gives a yield per kit of approximately 4m².

Spray: Use heavy-duty spray equipment capable of spraying cement coatings or mastics.

NOTE: Prior to application, it is recommended that a mock-up or field sample be made containing all materials that will be coated. Obtain approval of the architect or owner for the final colour, texture and coverage rate before proceeding with work. Retain approved sample until the project is completed.

Curing: Freshly completed work should be protected from rain during the first 24 hours. Moisture curing and curing compounds must not be used as the product is self-curing.

Plastering: Surfaces treated with EUCOSEAL which are to be plastered must be left to cure for at least 8 hours. At the end of the curing period, prior to the application of plaster, the surface must be primed with Pro-Struct 601/610 or cement bonding agent slurry.

Coatings: Prior to the application of a coating directly onto the EUCOSEAL, the product must be left to cure for at least 8 hours. The surface should then be primed with the appropriate primer specified for the coating or lining system.

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PRECAUTIONS / LIMITATIONS

- Do not apply to frozen or frost filled surfaces or when temperature is expected to fall below 4°C in the 24 hour period following application.
- When applied to the inside of open cisterns, tanks, etc., do not fill with water for at least 7 days after application.
- EUCOSEAL should not be applied to surfaces actively leaking.
- In all cases, consult the Safety Data Sheet before use.
- Not for use over moving cracks.
- Never exceed the maximum water content as stated on the package or add an amount that will cause segregation.
- Substrate must be saturated but free of excess surface water at time of application. Surface should appear dull, not glossy.
- Temperature of substrate must be between 7°C and 32°C at time of installation.
- For applications thicker than 3mm, contact StonCor Africa Technical Service at 011-254-5500.
- Do not store below 7°C. Protect from freezing.

NOTE:

- MCI™ is a trademark of the Cortec Corporation, registered in the United States and other countries.