MORTARS

EUCOSEAL 510HC

EPOXY MODIFIED CEMENTITIOUS MORTAR

EUCLID CHEMICAL

PACKAGING

COVERAGE
12 Litres mixed unit will yield approximately 4m² at 3mm thick

CLEAN-UP
Use scouring pads and water. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

SHELF LIFE
Minimum 24 months at 24°C, when kept at recommended storage conditions and in original unopened containers.

DESCRIPTION

EUCOSEAL 510HC is a spray-grade, economical, epoxy-based repair mortar, patching and surfacing compound that exhibits excellent bond strength to concrete and other masonry surfaces. It is ideally suited for resurfacing deteriorated concrete in waste water environments. Topcoated with suitable lining systems provide protection from acid attack from H_2S or MIC.

PRODUCT CHARACTERISTICS

FEATURES / BENEFITS

- Epoxy modification improves chemical resistance for waste water environment.
- Zero VOC.
- Water-based, low odour.
- Excellent film strength, abrasion and impact resistance.
- Easily topcoated to provide additional chemical resistance or appearance.
- Self-priming over concrete.
- Aggregate reinforced.
- Vertical and horizontal reprofiling layer over concrete and mortars, 0.5 to 6mm.

TECHNICAL INFORMATION

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

TYPICAL PROPERTIES	AT 25°C
Colour	Greenish Grey
Primer	Normally self-priming to concrete or masonry surfaces
Topcoat	Epoxies, epoxy novolacs, polyurethanes and polyureas
Dry Film Thickness	As required to fill the void or resurface the substrate. May be applied up to 6mm per application. Large bug holes may need additional coats or “bulking” of the material for proper fill.
VOC	As supplied: 0g/litre

DIRECTIONS FOR USE

Surface Preparation: Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

Concrete: Concrete must be cured 28 days at 24˚C and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete. Abrasive blast or equivalent to remove laitance and other loose concrete in accordance with SSPC-SP 13 / NACE 6, ICRI CSP 3 to 6, and ASTM D4259 Abrading Concrete.

Dealing with form voids on vertical surfaces:

- EUCOSEAL 510HC can handle 9mm to 12mm depth voids, fill voids and let set at 30 to 60 minutes at 21˚C to 24˚C and re-trowel and rubber float.
- 12mm and above apply in lifts (successive coats) or form the surface. Formed surfaces must have a minimum of 25mm annular space to form surface for rodding (compaction).

CMU: Mortar joints should be thoroughly cured for a minimum of 15 days at 24˚C and 50% relative humidity or equivalent.

Application Equipment: EUCOSEAL 510HC may be applied using conventional concrete placement and finishing tools.

Mixing: EUCOSEAL 510HC is supplied as a 3-component 12 litre kit consisting of: EUCLID 510 Part A (liquid); EUCOSEAL 510 Part B (liquid); EUCOSEAL 510HC Part C – 20kg Aggregate.

Power mix Parts A and B together. For ease of mixing, slowly add the Aggregate (Part C). Power mix until uniform using a horizontal blade mortar mixer.

Application Conditions:

Condition	Material	Surface	Ambient	Humidity
Normal	21˚C to 26˚C	21˚C to 26˚C	21˚C to 26˚C	0 to 80%
Minimum	10˚C	10˚C	10˚C	0%
Maximum	32˚C	52˚C	43˚C	90%

This product simply requires the substrate temperature to be above the dew point. Special application techniques may be required above or below normal application conditions. **Note:** When conditions such as excessive wind and high ambient temperatures exist, cover the area with polyethylene sheeting.

Curing Schedule:

Surface Temp & 50% Relative Humidity	Set Time to Topcoat	Light Traffic	Heavy Traffic	Final Cure
24˚C	12 Hours	24 Hours	48 Hours	28 Days

These times are based on up to 12.5mm thickness at 21˚C. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times. During high humidity conditions, it is recommended that the application be done while temperatures are increasing.

The maximum recoat time without surface preparation is 7 days at 25˚C. Always take precautions to prohibit the surface from becoming contaminated prior to application of topcoating; it will be necessary to detergent-wash and abrasive blast or sand the surface if it has been contaminated.

SAFETY

Safety: Read and follow all caution statements on this product data sheet and on all the safety data sheets for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation: When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA / NIOSH approved respirator.

PACKAGING, HANDLING & STORAGE

Shipping Weight (Approximate):	**12 Litre Kit**
Part A	1.75kg
Part B	3.1kg
Part C	20.5kg

Flash Point (Setaflash):	
EUCOSEAL 510HC Part A	251°C
EUCOSEAL 510HC Part B	Water-based, not applicable
EUCOSEAL 510HC Part C	Not applicable

Storage Conditions: 18°C to 30°C – Store indoors. **Do not freeze**.

PRECAUTIONS / LIMITATIONS

- Minimum surface and ambient temperature is 10°C.
- Not for use under vinyl ester or polyester materials.
- In all cases, consult the safety data sheet before use.