

POXEECOTE

HEAVY DUTY EPOXY COATING



DESCRIPTION

POXEECOTE is a 100% reactive, solvent-free, two component, high build, polyamine cured epoxy coating. This coating has excellent chemical and abrasion resistance

FEATURES & BENEFITS

- Provides excellent wear under heavy traffic
- Excellent resistance to a variety of chemicals
- Hardens to semi-gloss finish
- Easy to apply with standard equipment
- Can be applied as a non-slip floor finish
- Available in a range of colors
- Free of solvent for low-odor and safe application.
- Non-Toxic, for internal lining of potable water containment structures
- Hygienic in service, **POXEECOTE** will not support bacterial growth

BASIC USES

Primarily designed as a heavy duty concrete floor coating in industrial and commercial plants such as warehouses, service stations, chemical plants, metal treatment plants, internal car parking decks and machinery service areas. Can be used as a rust preventing coating for concrete and steel tanks and other surfaces subjected to chemical attack and/or wherever resistance to corrosion and abrasion is required. As a heavy duty coating on steel exposed to abrasion

PROPERTIES

The mixing ratio of liquids in this system is approximately 4 parts resin to 1 part hardener by volume.

Finish	Semi - gloss
Solids by volume	100%
Theoretical Spreading Rate	5 square meter per liter at 200 microns thickness (dry or wet film).
Recommended thickness	400 microns
Specific Gravity	1.33
Dry to touch	Approx. 24 hours at 20°C
Fully cured	7 days after application

Pot life	1 hour at 20°C
Recoat Interval	24 hours minimum at 20°C 7 days maximum at 20°C
Airless spray Application	Nozzle orifice 0.019" -
Application	0.023"

This Data is for indication only

Compressive Strength

(ASTM C 579) Flexural Strength	75 N/mm ² @ 7 days
(ASTM C 580) Tensile Strength	39 N/mm ² @ 7 days
(ASTM C 307)	12 N/mm ² @ 7 days
Shore 'A' Hardness	95 (ASTM D 2240)
Shore 'D' Hardness	55 (ASTM D 2240)
Abrasion Resistance (ASTM D 4060)	20 mgs loss (CS17 wheel /1000 gms weight/1000 cycles)
Bond Strength to concrete (ASTM D 4541)	Greater than cohesive strength of concrete
Water penetration depth (BS EN 12390-81)	Nil
VOC	28 mg/liter

CHEMICAL RESISTANCE

Acetic Acid, 5%	good
Alkalies	excellent
Ammonia	excellent
Battery Acid	excellent
Hydrochloric Acid 10%	good
Methylene Chloride	poor
Salt Water	excellent
Oil	excellent
Ethylene glycol	excellent
Sewage Water	excellent

COVERAGE	5 m ² per liter at 200 microns thickness (dry or wet film)
PACKAGING	10 liter kits (A+B) and 20 liter kits (A+B)
COLOR	Off-white, Gray, Blue, Silver Gray and Maroon. Special colors are available on request.

SPECIFICATION / COMPLIANCE:

POXEECOTE passes the requirements of BS 6920, Part 1 1988 and certified to be suitable for use in contact with potable water

SURFACE PREPARATION

Surfaces must be structurally sound, dry, clean and free from oil, dust, curing compounds, grease, and other loose particles. Suitable methods for preparing concrete are by sand blasting, acid etching, water jet, grinding, wire brushing or pneumatic tools. For steel, abrasive blasting is recommended.

PRIMER

If required apply a thin coat of **POXEECOTE** as a prime coat at approx. 50 - 75 micron thickness.

NEW CONCRETE FLOORS

New concrete should have cured until the shrinkage and moisture movement is low and possess an open, porous and textured surface with all curing compounds and sealers removed. Laitance should be removed by light sand blasting or grinding where possible. Substrate should not give a hygrometer reading that exceeds 75% R.H. when it is tested for its moisture content in accordance with BS 8203 Appendix A. Acid etching can be utilized to remove light laitance followed by thorough washing with water. Ensure the complete removal of salt produced by acid etching prior to application. Vacuum cleaning is recommended. Allow to dry.

OLD CONCRETE FLOORS

Removal of all contamination should be carried out by grinding, blasting or scabbling. Prior to application it is essential that the floor is sound and clean.

REPAIRS

If repairs are necessary, see **CEMTEC EPOMORT 100** data sheet.

EPOXY SCREED COATING

POXEECOTE can be applied directly over CMCI **CEMTEC EPOMORT 100 EPOXY MORTAR** screeding for additional protection and wear resistance.

MIXING / APPLICATION

Mixing

All materials should be kept within a temperature range of 16°C - 32 °C. Mix parts A and B (resin & hardener) separately for one minute using a drill and mixing prop, for ease of mixing, add the part B to the part A (not reverse) and mix thoroughly for 2 -3 minutes.

Placement

This product may be applied by squeegee, roller or industrial sprayer. After application, it is suggested the coating be back rolled to reduce surface imperfections and improve bond. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, place immediately.

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no warranty and or responsibility is assumed on the performance of work completion executed with use of our products.

CLEAN-UP

Clean tools and equipment with solvent such as CEMTEC SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

TO MAKE A NON-SKID EPOXY FLOOR COATING USING "POXEECOTE"

- Prepare concrete surface to be coated as described in the surface preparation section of this data sheet.
- Mark the area to be coated in five (5) meters by ten (10) meters length sections. Mix the two liquid components (part A and part B) and pour direct from the container to the center of the marked area. Distribute the liquid using squeegee or roller. 13.3 kg/10 liter kit of **POXEECOTE** approximately cover 50 square meters at 200 micron thickness.
- Immediately after the coating has been applied and distributed, broadcast the Nonslip Aggregates #2 or #3 at spreading rate as given below; Non-slip Aggregate #2 - Fine - 1-3kg/m² Non-slip Aggregate #3 - Medium - 1-3kg/m² on the surface until it has absorbed the liquid. Allow to dry for at least 16 hours but not more than 36 hours
- Remove the excess sand from the surface using a nylon bristled brush. Apply a second coat of **POXEECOTE** approximately 0.2 mm thickness. Allow to dry and cure for seven (7) days.

SHELF LIFE

1 year in unopened container.

PRECAUTIONS / LIMITATION

- Product will yellow with outdoor use.
- Solvents are Flammable. Keep away from heat, sparks, open flame or lighted cigarette. Use explosion-proof application equipments.
- If HVAC intake dusts will distribute solvent odor into adjoining occupied areas of the building, care should be taken to block these ventilation vents.

TD/0213/D

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