POXEECOTE EPU

HIGH BUILD FLEXIBLE EPOXY POLYURETHANE COATING

DESCRIPTION

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

FEATURES & BENEFITS

- No primer required
- UV resistant
- Excellent chemical and abrasion resistant
- Long term corrosion protection
- Excellent resistant to underground environment
- Flexible coating
- Cost saving - primerless system
- Environment friendly

BASIC USES

Primarily designed for offshore or marine environments and sewage work applications such as aeration tanks, clarifiers, manholes and permanent submerged condition where chemical resistance is of paramount important. Can be used as a rust preventing coating for concrete and steel tanks and other surfaces subjected to chemical attack and/or wherever corrosion resistance and wearing resistance quality is required. Waterproofing exterior walls or foundations and basements or other structures that are to be backfiled.

ENGINEERING DATA

Finish	Semi-gloss
Solids by volume	100%
Theoretical Spreading	
Rate	2.5 m^2/liter @ 400 microns dft
Specific Gravity	1.55 ± 0.04 @ 25°C
Dry to touch	3 hours @ 25°C
Fully cured	7 days
Pot life	1 hour @ 25oC
Recoat Interval	4 hrs - 24 hrs
Water Absorption	NIL (ASTM C 413)
Tensile Strength	10 N/mm^2 (ASTM D 412)
Elongation @ break	25% (ASTM D 412)
Airless spray Application	Nozzle orifile 0.019" - 0.023" (This data is for indication only)

CHEMICAL RESISTANCE (ASTM D 1308)

Acetic Acid .....good
Alkalies .. ..excellent
Ammonia . .....excellent
Battery Acid .. ..excellent
Hydrochloric Acid 10% .. ..good
Methylene Chloride .. ..poor
Salt Water... ..... excellent
Oil .....excellent
Ethylene Glycol .. ..excellent
Tap Water ... .excellent
Ground Water.....excellent
Sewage Water ....excellent

SURFACE PREPARATION

All surfaces shall be dry and clean, free from any dirt, grease, oil, pollution fallout, smoke, wax, form, release agents, surface chemicals, or other foreign contaminants which could interfere with proper adhesion. Surfaces shall be free of sharp projections, ridges and loose aggregate. The actual surface preparation procedures which are to be followed on a specific project will vary depending upon service conditions, condition of the substrate, and the presence of existing paints, coatings or other contaminants. The following surface preparation procedures and recommendations are provided for guideline use only.

STEEL SURFACES

Steel must be free of excessive, rust scale, pollution fallout, dirt, grease, surface chemicals or other foreign contaminants prior to blast cleaning. A careful examination must be made to ensure that these contaminants along with any accumulated oil, smoke, wax or any other material which could interfere with adhesion has been removed. This should be accomplished by use of a solvent wash as defined in SSPC - SPI Solvent Cleaning. All sharp edges, welds, weld spatter, burrs and any other sharp prominence shall be ground smooth. Excessive rust scale shall be removed by mechanical means prior to blast cleaning. On steel tank applications, all seams and joint must have a continuous, smooth interior weld.

PACKAGING	Available in 10 liter kits.
COLOUR	Off - white and gray, special colors are available on request.

Steel surfaces subject to immersion conditions must be blast cleaned to White Metal (SSPC-SP5) with a minimum anchor profile of 2+mils. Steel subject to non-immersion conditions shall be cleaned to Near White (SSPC-SP10) with a minimum anchor profile of 2.0 mils. The proper profile is required to assure optimum adhesion of the **POXEECOTE EPU** coating system.

Abrasive blast cleaning shall not be performed when surface temperature of the steel is less than 5° F.(3° C.) above the dew point of the ambient air or where there is a possibility that the blasted surface will become wet before the coating can be applied.

The blast cleaned surface shall be coated by the end of the same work day, but in any event before any visible rusting occurs. If rusting occurs after blast cleaning, the surfaces shall be reblasted before coating.

CONCRETE SURFACES

Concrete which will be subject to immersion conditions must be blast cleaned. Concrete subject to non-immersion conditions can either be cleaned to roughen the surface or acid etched. The surface preparation used must remove all loose, weak or powdery concrete to expose all voids and provide the necessary profile for mechanical adhesion of **POXEECOTE EPU.**

Concrete surfaces which are contaminated with oil, grease, dirt, chemicals etc. shall be cleaned prior to blasting or acid etching with approved biodegradable chemical cleaner and water. Cleaning shall be accomplished using mechanical scrubbers and/or high pressure power washing equipment as necessary to remove strongly adhering contaminants. Rinse thoroughly to remove all traces of the cleaner.

Blasting must produce an even profile. After blasting, all grit, dust, loose material, dirt and foreign objects shall be removed by sweeping or vacuuming.

Acid etching shall CEMTEC-KLEENbe accomplished using a 10% solution. The diluted acid solution shall be sprinkled onto the concrete surface. After the solution has stopped bubbling or foaming normally 5 to 10 minutes, the area shall be scrubbed thoroughly by hand or by using mechanical scrubbers. After scrubbing all surfaces thoroughly rinsed with liberal amounts of fresh water to assure complete acid removal. Surfaces may require additional rinsing or a high pressure rinse to remove all traces of the acid solution.

Any resurfacing or repairs necessary to achieve a sound, consistent surface, free of blowholes, voids, cracks or spalling shall be completed prior to priming. Use **REPCON SHB / CEMTEC R44** to fill voids and blowholes and to resurface spalled areas. Blasting or acid etching is not necessary over surfaces which have been repaired with **REPCON SHB or EPOMORT 1000 GEL / CEMTEC R44**. Use epoxy injection, urethane caulk or other appropriate patching material for repairing cracks and/or large voids in the concrete surface. Patching and/or crack repair shall be completed in strict accordance with manufacturer's recommendations.

EPOXY SCREED COATING

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

MIXING / APPLICATION

The hardener (part B) is added to the resin (part A) and mixed thoroughly until homogeneous (at least 3 minutes). Let stand for at least five minutes prior to application. **POXEECOTE EPU** can be applied by brush, roller or airless spray. The second and subsequent coats can be applied at interval of 4 hrs- 24 hrs.

CLEANING

CEMTEC SOLVENT can be used to clean the tools and equipments

SHELF LIFE

10 Liter kits. will cover 20m^2 @ 500 microns (DFT). **POXEECOTE EPU** has a shelf life of 1 year in an unopened container, when stored at warehouse conditions below 35^{0}C.

TD/PDS/1007/A

Quality Statement
CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quailty Procedures centified 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.

"High Quality Construction Chemicals"
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