

CHEM-SEAL EP

PENETRATING EPOXY SEALER FOR CONCRETE & STEEL SURFACE

DESCRIPTION:

CHEM-SEAL EP is a two-component epoxy system designed to penetrate concrete & steel surface. It fills surface pores resulting in improved wear resistance and lower absorption of water and salts. It is suitable for potable water. This system is supplied as a 50% solids formulation.

PRIMARY APPLICATIONS:

- Parking decks
- Bridge decks
- Industrial floors
- Improve durability of dusting concrete surfaces.

PACKAGING:

CHEM-SEAL EP is an epoxy system that as two part A + B. The units are pre-proportioned and packaged in 5 Ltr Set Transparent.

TECHNICAL INFORMATION:

Typical Engineering Data

The following Results were developed under laboratory conditions.

Suitable for foot traffic : 2-24 hours
 Suitable for wheel traffic: 48 hours
 Total Solids : 50% minimum
 Flexibility 2 mil film : Excellent
 Pot Life : 3 hours

Shelf Life:

2 years in original, unopened package in warehouse environment.

APPEARANCE:

CHEM-SEAL EP is a clear two-component epoxy system consisting of part A and part B. after placement and curing, the product has an even, semi-gloss appearance.

COVERAGE:

Coverage Rates m²/liter

The concrete surface texture greatly affects coverage rates and final appearance. Badly porous surface may reduce coverage to less than 2.5 m²/liter. Additionally, introducing silica sand for slip resistance will reduce coverage rates.

DIRECTIONS FOR USE:

Surface Preparation – New concrete must be a minimum of 28 days old and possess an open, porous and textured surface with all curing compounds and sealers removed.

The concrete must be clean and sound. All oil, dirt, debris, paint and unsound concrete must be removed. The surface should be prepared mechanically using sandblast, shot blast or scarifier which will give a surface profile with the cement paste removed from the surface.

The concrete surface should be dry for at least 24 hours for maximum penetration and best results. The above surface preparation is that recommended by Chemi Tech. Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salt of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry. Note: Even with proper procedures, an acid etched surface may not produce as strong a bond as produced by other preparation methods. Also acid etching will not remove oil, grease, sealers and other materials that will interfere with the bond on the surface of the concrete.

Mixing – All material should be in the proper temperature of 16° C – 32° C. for each of mixing add part B into Part A (not the reverse) and mix 2 – 3 minutes using a drill and mixing prop. The epoxy must be well mixed to ensure proper chemical reaction. After mixing, place immediately.

Placement – To apply the sealer to concrete, use a pump-up or airless spray for best results. A short nap roller or lamb's wool applicator may also be used.

Clean-up

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

Concrete surface	First Coat	Second Coat
Trowelled Smooth	7.5 – 9.5	14 - 20
Broomed Textured	4 - 5	7.5 - 10

CHEMICAL RESISTANCE:

Alkalisexcellent
 Ammoniaexcellent
 Battery Acidgood
 Sea watergood
 Effluent Watergood
 Waterexcellent
 Sewagegood
 Distilled waterexcellent
 Vegetable oils, Mineral oils and fatsexcellent
 Salt Solutionexcellent

