

POLYURETHANE BASED TOP COATING

DESCRIPTION

CHEMFCOAT PU is a two component moisture cured polyurethane based highly durable direct gloss and colour retention topcoat finish with outstanding adhesion. On curing, it produces a very hard, tuff abrasion resistant flex-ible UV resistant coating, resistance to oil, petrol, detergent and chemical solutions.

PROPERTIES

CHEMCOAT PU is easy to apply, single component polyurethane sealer coating. The material reacts with atmospheric humidity to form a tough hard abrasion resistance, flexible poly-urethane sealer coating with excellent adhesion on all types of surfaces, concrete, metal, wood and porous concrete surfaces. The cured film exhibits excellent resistance to lubricants, petrol, detergent, water and a various alkali and diluted acids. CHEMCOAT PU can be applied over epoxy and polyurethane base coats such as Poxeecote range of epoxies and Uniflex range of Polyurethanes.

USES

CHEMCOAT PU is primarily designed for use in UV exposed Car parks as a protective sealer I coating. CHEMCOAT PU can also be used in warehouse facilities, Factory Floors and produc-tion facilities.

TYPICAL PROPERTIES

Specific gravity	: 1.15 ± 0.1
Flash point	: 38°C
Appearance	: Matt
Permissible Relative Humidity for application	: % min. 40 : % max. 90
Volume solids	: ~95%
Thickness Approx.	: 50 to 70 Micron

TYPICAL CURING PROPERTIES

Touch dry	: 4 hrs.
Tack free	: 6 hrs.
Hard	: 18 hrs.

Sward hardness : 45 after 3 days

Recoatibility interval : 12 hrs min.
: 2 days max.

Substrate Application Temperature : min. 5°C
: max. 35°C

Gas is released during the cure and this normally permeates through the film. However, if the film is applied too thickly or the substrate is damp, bub-bling of the coating can occur.

SURFACE PREPARATION

All surfaces must be dry and clean, free of pollution fallout, dirt, grease, surface chemicals or other foreign contaminants which will interfere with proper adhesion. A careful examination must be made to ensure that any accumulated oil, smoke, wax or any other materials which could interfere with adhesion has been removed.

The surface temperature should be minimum 3°C above the dew point temperature. The surface moisture content may not exceed 4%.

Steel Surfaces

Steel must be dry and clean and free of excessive rust scale, pollution fallout, dirt, grease, surface chemicals or other foreign contaminants. Metal surfaces shall be chemically cleaned or sand-blasted according to specific job requirements. The cleaned or sandblasted surface shall be primed by the end of same workday, but in any event be-fore any visible rusting occurs. If rusting occurs after blast cleaning, the surfaces shall be reblasted before priming.



POLYURETHANE BASED TOP COATING

Concrete Surfaces

Concrete shall be dry and clean, free from any dirt, grease, oil, pollution fallout, smoke wax, form re-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.

Sandblasting of concrete will be required if the surfaces are contaminated to the point that acid, chemical cleaning or power washing is not sufficient for removal.

Concrete surfaces having a smooth, steel trowelled finish may be acid etched or sandblasted. Prior to coating application, all loose material, foreign objects, dirt and dust shall be removed by use of power vacuum.

Wood Surfaces

Wood shall be dry and clean and free from any dirt, grease, oil, pollution fallout or other foreign contaminants which could interfere with proper adhesion.

All joints larger than 1/8" shall have an approved urethane sealant trowelled flush into opening. Allow to cure 24 hours prior to application of CHEMCOAT PU.

APPLICATION

CHEMCOAT PU shall be stirred well before use and can be applied by brush, roller, air spray or airless spray. CHEMCOAT PU shall be applied to the prepared surface. It shall be allowed for 24 hours cure time before allowing any traffic on the finished system.

CHEMCOAT PU should be applied in over high build epoxy coating as a top coat by a foam roller, brush & squeegee.

PACKING

CHEMCOAT PU is packaged in 4 Liter Set. Part A: 3 Liter & Part B: 1 Liter

COLOURS

Available in Gray, Light Gray and Dark Gray color

COVERAGE:

10 to 12 Sqm / Liter.

SHELF LIFE

2 year from date of delivery in un-opened containers. Store out of direct sunlight, and do not allow temperature to rise above 30°C.

HEALTH AND SAFETY

CHEMCOAT PU contains Di-Isocyanate, Xylene and Methoxy Propyl Acetate.

Harmful

- Avoid contact with skin and eyes.
- Avoid Inhalation of fumes.
- May cause sensitization in some cases.

Flammable

- Avoid naked flames.
- Use flameproof electrical appliances.

Precautions

- Wear eye protection and gloves.
- Provide good ventilation and extraction.
- Medical screening of operatives who already suffer from respiratory ailments such as asthma is an advisable routine procedure.

