

CONGUARD EPU

UV Resistant Flexible protective coating, based on polyurethane resins

DESCRIPTION

CONGUARD EPU is multi-component, low solvent content aliphatic polyurethane coating system formulated specially to be abrasion and chemical resistant for screed or concrete floors achieving 200 microns per coat, **CONGUARD EPU** provides excellent resistance to UV light, and non-yellowing.

USAGES

- Outdoor & indoor car parks
- Industrial hard-wearing flooring and workshops
- Chemical industries flooring
- Vehicle ramps, helipads, and walls
- Seawater tanks & intakes
- Reservoir water treatment plants
- Other similar applications

TECHNICAL DATA

CONGUARD EPU

Mixed Appearance

Solid Content

Mixed Density @25°C
(ASTM D 1475)

Pot Life @25°C
(ASTM D2471)

Touch Dry @25°C
(ASTM D2471)

Full Cure Time @25°C
(ASTM D 1640)

Overcoating Interval
@35°C

Elongation

Typical values

Clear/colored Liquid

52±2 %

1.20±0.02 kg/lit

60 – 120 min

4 hours

7 days

10 – 16 hours

3%

STANDARDS

CONGUARD EPU is formulated to comply with all requirements of ASTM D16.

ADVANTAGES

- UV stable
- Flexible coating
- Good abrasion surface
- Surface anti-slip roughness control by adding or broadcasting silica-sand if needed
- Hygienic, anti-bacterial & fungus growth
- Resistant to a wide range of industrial chemical and fuels
- Waterproof and dustproofing.
- Easy to clean
- Available in different colors (Standard Grey & Blue)
- Cost effective

USAGE INSTRUCTIONS

1. Surface preparation

All substrates shall be sound, clean, free from dust, grease & oil, dirt, wet substrates should be sponge-dried to remove all free surface water.

And in case resin-based flooring or primer were applied more than 3 days prior to application of **CONGUARD EPU**, it is recommended to abrade the substrate with emery paper or grinder to provide a mechanical key prior to application.

Concrete floors should have compressive strength not less than 25 MPa. and if new concrete floor, it must be over 28 days old before applying any resin-based product.

Any cracks or grooves should be filled using **PIOMORTAR FC** before priming.

2. Priming

Apply one coat of **PIOPRIME 38** or **PIOPRIME 62** depending on concrete porosity, ensure that the surface to be primed is clean, dry and free from oil, grease or other contamination.

CONGUARD EPU

PIOPRIME 38

CONGUARD EPU

Coverage

9 m²/liter

5m²/liter/200μ

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish a practical estimation to material consumption.

3. Mixing

Stir component A only separately, then the entire content of component B could be poured into the Component A container, both should be mixed at least for 1-2 minutes using mechanical mixer (drill mixer). Insufficient mixing may lead to color variation and bubble formation.

4. Application

Transfer the mixed material into a suitable container for application, apply material using a short pile roller to achieve the required film thickness, it is recommended to apply two coats within 24 hours.

5. Cleaning

Clean all tools and application equipment with a suitable thinner immediately after use.

Hardened or cured material can only be removed mechanically.

PACKAGING

CONGUARD EPU is supplied in 20 Liters set, component A & B.

LIMITATION

Don't apply **CONGUARD EPU** if;

- The temperature of the surface is below 5 °C or over 40 °C
- The flooring concrete compressive strength is less than 25 MPa
- The flooring concrete moisture content must be less than 4%

HEALTH & SAFETY

Before applying **CONGUARD EPU**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **CONGUARD EPU** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

STORAGE & SHELF LIFE

CONGUARD EPU shall be stored in its sealed container under dry and shaded place in a temperature from 5°C - 35 °C, shelf life of the material is 12-months.

CHEMICAL RESISTANCE

CONGUARD EPU	Concentration
Chlorine	100%
Kerosene	100%
Gasoline	100%
Nitric Acid	40%
Sulphuric acid	50%
Ammonia (Salt Water)	30%
Acetic acid	30%
Detergents	100%
Alum	100%
Formic acid	40%
Hydrochloric acid	50%
Phosphoric acid	20%
Sodium Hydroxide	50%
Soda Solution	100%

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:
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