

CONGUARD ET350

Two-component solvent free tar extended epoxy resin coating

DESCRIPTION

CONGUARD ET350 is a two-component epoxy resin based, solvent free, tar extended, high build coating, specially formulated to provide excellent abrasion and chemical resistance to steel or concrete on horizontal and vertical surfaces including areas subject to permanent immersion.

USAGES

- Fills the pore of the application substrates such as concrete, and metal
- Indoor and outdoor surface coating for wastewater facilities
- All kinds of underground facilities such as canal, foundation, and pipelines
- It can be applied over joints and cracks to increase protection

ADVANTAGES

- Provides excellent adhesion to top layer polyurethane system
- Resistance to mechanical influences and proves good water and chemicals resistance
- Easy to mix and apply
- Sound and hard coat after curing
- Excellent adhesion to common surfaces, like steel, concrete, stone, artificial stone, and wood
- Adhesion does not deteriorate if product is submerged in water, sea water, sewage and oil

TECHNICAL DATA

CONGUARD ET350	Typical values
Mixed Appearance	Black liquid
Solid Content	98.4 %
Tensile Strength	$\geq 6 \text{ N/mm}^2$
Mixed Density @25°C (ASTM D1475)	1.42 kg/cm ³
Pot Life @35°C (ASTM D2471)	90 –120 min
Curing Time	7 days
Pedestrian Traffic	24 hours
Application Temp.	10 – 35°C
Elongation at break	32%

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.

Cracks on surface must be filled by **PIOMORTAR FC** or **PIOMORTAR TT**, and humidity must be max 4%, smooth surface should be roughened to form a mechanical key.

Concrete surfaces particularly if new; should be fully cured with a maximum residual relative humidity (RH) of 75%.

2. Priming

No need to use any kind of primer as it is a self-priming material when concrete is new.

Old concrete surfaces should be primed with one coat of **PIOPRIME 38**.

CONGUARD ET350	Coverage
CONGUARD ET350	4 – 5 m ² /liter/200-250μ

3. Mixing

Stir component A only separately, then the entire content of component B could be poured into the base container, both should be mixed for 2-4 minutes using mechanical mixer (a small drill mixer) until it is a homogenous mixture.

4. Application

Transfer the mixed material into a suitable container for application.

Application should be done with roll, brush or spray. Mixture pot time changes according to weather conditions. This time is nearly 90 minutes, but the time can be reduced in hot weather, can be increased in cold weather. Applied surface should be protected from water, rain, freeze.

5. Cleaning

Tools contaminated with **CONGUARD ET350** can be cleaned using a suitable thinner, hardened material can be removed by mechanical means.

CHEMICAL RESISTANCE

CONGUARD ET350	Concentration
Chlorine	100%
Kerosene	100%
Gasoline	100%
Detergent	100%
Nitric Acid	40%
Sulphuric Acid	50%
Ammonia (Salt Water)	30%
Acetic Acid	30%
Alum	100%
Formic Acid	40%
Hydrochloric Acid	50%
Phosphoric Acid	20%
Sodium Hydroxide	50%
Soda Solution	100%

PACKAGING

CONGUARD ET350 is supplied in 20 liters set, component A & B.

HEALTH & SAFETY

Before applying **CONGUARD ET350**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **CONGUARD ET350** 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

Keep **CONGUARD ET350** dry and in shaded place of a temperature range 10°C - 35°C, shelf life of the material is 12-months.

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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