

PRODUCT DESCRIPTION

PlekoGuard CTE is a two-component, self-priming, cold-applied protective coating based on coal tar pitch extended epoxy resin. It provides excellent chemical resistance when applied to properly prepared concrete and steel substrates. PlekoGuard CTE is designed for use in sewage treatment plants, wastewater facilities, and similar aggressive environments. It is also suitable for waterproofing submerged foundations and high-rise building structures. PlekoGuard CTE cures to form a highly bonded, cold-applied waterproofing barrier.

The dry film composition of PlekoGuard CTE consists of 30% coal tar and 70% epoxy resin, delivering outstanding durability and long-term protection.

USES

PlekoGuard CTE is ideal for a wide range of waterproofing and protective applications, including:

- Lining of concrete structures and ductile piping systems
- Waterproofing for sewage and wastewater project structures (both concrete and steel elements)
- Protection of concrete exposed to aggressive chemical environments
- Waterproofing of critical and sensitive foundation structures

APPROVED SUBSTRATES

PlekoGuard CTE can be applied over concrete and Steel substrates.

PACKAGING

30 Kg Sets.

COVERAGE

The recommended dry film thickness can be achieved by 2 coats with the consumption of 2 m² /kg/250 micron. The manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques and substrate conditions.

PROPERTIES

- **Excellent resistance to chemical attack**
- **Provides long-term corrosion protection**
- **Forms a seamless, epoxy-rich protective layer**
- **Strong adhesion to concrete, cement mortars, PP, and PVC surfaces**
- **Highly effective waterproofing properties**
- **Self-priming formulation for easier application**
- **Compatible with cathodic protection systems**
- **Anti-fungal properties for enhanced durability**
- **Can be easily applied by brush, roller, or spray**
- **Cost-effective solution for demanding environments**

TECHNICAL DATA

Property	Value
Color	Black
Solid Content (by weight)	80 ± 1%
Density @ 25°C	1.55 ± 0.2 Kg/ltr.
Touch Dry @ 25°C (overcoat time)	12hrs ±30 min.
Pot Life @ 25 °C	150 ±15 min.
Flash Point	>37 °C
Adhesion To Concrete ASTM D7234	>1.5 MPa (concrete failure)
Typical thickness/coat	300 micron

INSTALLATION

MIXING

Pre-stir Component A (the base) thoroughly on its own. Then, add the full content of Component B (the hardener) into the base container. Mix both components together using a suitable mechanical mixer for at least one minute, or until a uniform, consistent mixture is achieved.

SUBSTRATE PREPARATION

Concrete Surfaces:

All concrete surfaces must be clean, dry, and free from dust, laitance, and other contaminants, with a moisture content below 5%. Dense or smooth concrete should be lightly abraded, followed by thorough cleaning with a suitable brush. All cracks, pinholes, and surface defects must be repaired using an appropriate PLEKO repair mortar before application (Refer to PlekoMortar UM and PlekoRender PR)

Steel Surfaces:

Steel substrates must be free from dirt, oil, grease, and any surface contamination. Surfaces should be blast cleaned to a minimum standard of Sa 2½ as per EN ISO 12944, Part 4. The first coat of PlekoGuard CTE should be applied immediately after surface preparation, preferably within three hours, to prevent surface oxidation

APPLICATION

After mixing, PlekoGuard CTE should be applied immediately using a brush, roller, or spray, ensuring a continuous, even coating with uniform thickness. A minimum of two coats is recommended to achieve the desired level of protection, allowing at least 12 hours between coats at 25°C.

APPLICABLE STANDARDS

PlekoGuard CTE complies with the requirements of ASTM D450 and ASTM D1763 Type-1 Grade 1&2.

CLEANING

Clean all tools and application equipment with solvent cleaner immediately after use. Hardened material can only be removed by mechanical means

STORAGE

Store PlekoGuard CTE in a dry shaded place, in its original, sealed, and undamaged packaging.

Recommended storage temperatures are between +5°C and +40°C. Protect the product from direct sunlight, heat sources, and moisture.

Shelf life is 12 months from production date.

HEALTH AND SAFETY

PlekoGuard CTE should not be ingested or allowed to come into contact with the skin or eyes. Appropriate personal protective equipment, such as gloves and safety goggles, must be worn during handling and application.

In case of eye contact, rinse immediately with plenty of water and seek medical advice.

If the product comes into contact with the skin, wash thoroughly with soap and water.

If swallowed, do not induce vomiting - seek immediate medical attention.

Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.