

CRES[®]PROTECT EPS

Polysulphide modified epoxy resin based protective coating

CRESPROTECT EPS is a two-component polysulphide modified epoxy resin protective coating designed for superior adhesion, corrosion protection and high chemical resistance for substrate and steel structures. It is a two part system which can be applied to provide a flexible, elastomeric coating.

ADVANTAGES

- Non-toxic, solvent free
- Easy application by brush & roller
- Excellent chemical resistance
- Good flexibility and crack bridging ability
- Good corrosion protection
- Excellent abrasion and impact resistant

USES

- Resistant coating against chemicals. It also act as internal protective lining for potable water concrete structures.
- Hard wearing floor coating in industrial areas.
- Protective coating to exposed substrate structures.
- Protection of swimming pools, water tanks etc.
- Heavy duty protective coating for concrete in oil refineries, garages, hospitals, man holes, sewage water tanks.
- Internal lining of manholes & treaded sewage holding tanks.

SURFACE PREPARATION

Substrates:

The surface should be free from dust, dirt, curing compound, oil etc. Clean the surface thoroughly to remove all loosely adhering particles and cement laitance. It is recommended to use a light mechanical grinder for cleaning. The substrate should be sound and any cracks, potholes shall be treated with **CRESPOXY EP** or **CRESPUTTY EP 100**.

New concrete substrate should be completely cure and have moisture content not exceeding 5%. The old or existing floor should be refurbished mechanically to ensure a clear sound substrate.

Priming:

Primer is not normally required for concrete substrate when using CRESPROTECT EPS on a dry, sound, good quality non porous substrates.



TECHNICAL PROPERTIES

Description	Value	Standard
Appearance	Liquid coating	-
Specific gravity @25 °C	1.45 (±0.05)	ASTM D 1475
Pot life @ 25°C, hr	> 50	ASTM D 2471
Bond Strength, N/mm ²	> 4.0	ASTM D 4541
Shore A hardness	>90	ASTM D 2240
Touch dry @ 25°C, hrs	8 to 10	-
Tack free @ 25°C, hrs	10 to 12	-
Full cure @ 25°C, days	7.0	-

All values given are subject to 5-10% tolerance.

Metal

All surfaces should then be primed immediately after preparation to eliminate formation of rust. The primer should be touch dry but allowed to cure not more than 24 hours prior to application of CRESPROTECT EPS.

MIXING

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product. For preparation of product, Component A should be mixed separately for two minutes with a heavy duty, slow speed drill fitted with a mixing paddle at low number of turns (200-300 RPM) until a homogeneous mix is obtained. Pour the hardener (Component B) into the base mixture and mix for another two minutes. It is always recommended to mix a complete kit at a time. Over mixing must be avoided to minimize air entrainment. Once mixed, the material must be used within its pot life.

APPLICATION

A minimum 2 coat application is generally recommended. After mixing apply **CRESPROTECT EPS** immediately by shorthanded brush or roller or by airless spray to the surface. Ensure a continuous coating of uniform thickness. Apply the second coat as soon as the first coat has dried completely depending upon the ambient and surface temperatures.

Apply **CRESPROTECT EPS** with theoretical coverage of 2.0m²/L with minimum DFT of 500 micron.

The coating can be applied as a flexible and crack free flooring with anti slip finish. Graded sand/quartz can be broadcasted on the first coat while it is still wet and allowed to dry completely. After 24 hours the excess sand can be brushed away and second coat can be given.

LIMITATION

- (i) Substrate temperatures should be above 5 °C and rising.
- (ii) All product should be used within the pot life.
- (iii) The product should not be thinned with any type of solvent under any circumstances.
- (iv) It should not be applied onto surfaces likely to suffer from rising dampness or relative humidity > 70%.
- (v) UV light exposure may lead to yellowing.
- (vi) Cracks to be assessed and properly repaired.

PACKING

CRESPROTECT EPS is supplied in two packs of 20 litre kit.

Component A – Resin

Component B - Hardener

STORAGE

CRESPROTECT EPS should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of this product is 12 months from the date of manufacturing.

CLEANING

Tools and equipment should be cleaned with suitable solvent immediately after use. Hardened material should be removed mechanically.

HEALTH & SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.