

Crown Two Pack Epoxy Coal Tar Composition

PRODUCT DESCRIPTION

Type: A twin pack, high build amine cured, combination of epoxy resin and pitch paint reinforced with aluminium flakes.

Uses: To protect steelwork in highly corrosive environments such as chemical plants, sewage works, dam gates and harbours

Substrates: Interior of water storage tanks, (must not be used on the interior of drinking water tanks) ships hulls, underwater steel structures, crude oil/sea water, blast tanks and the inside of pipes i.e. for sewerage hydroelectric stations etc.

Advantages: Excellent abrasion, chemical, water and corrosion resistance. High build film. Resistant to weathering, oxidation and mild acids and alkali solutions. Suitable for surfaces in contact with fresh or salt water

Conditions during application; The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, measured near the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 3% (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

PRODUCT DATA:

Colour Range: Black and Brown only.

Pack Sizes: 1 litre and 4 litres

Finish: Gloss

Thinner & equipment cleaner: Crown Two Pack Epoxy Thinner

Mixing: 3:1 by volume Base: Hardener. Base and hardener should be mixed together thoroughly and allowed to stand for 15-20 minutes before application. Then add Crown Two-Pack Epoxy Thinners to required viscosity and stir thoroughly before use.

Pot-life: Approximately 8 hours. Due to the limited "pot life" of the mixed material, care should be taken to avoid mixing more material than can be used within the working day.

Drying Times: Touch dry 4-6 hours. Recoatable within 24 hours @25°C in well ventilated conditions. Do not allow the film to harden for more than 96 hours between coats to ensure good inter-coat adhesion. Full cure 4 -5 days at ambient conditions.

D.F.T.: 70µm - 90 µm per coat for general coating. Min. 200µm for Immersion purposes

TECHNICAL DATA SHEET



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APPLICATION DATA:

The product can be applied by: Brush or spray.

Spreading Capacity per coat: Depends on film thickness applied, type of texture, surface porosity, imperfections, temperature & wastage during painting

3 - 5 m²/l per coat on smooth, non-porous surface at 100-125 microns dry film thickness

Maximum spread rate per coat is obtained at minimum dry film thickness and vice versa.

DIRECTIONS FOR USE

Surface preparation & Paint System:

Surface	Preparation	Primer/ Undercoat	Topcoat
New Ferrous and Steel surfaces	Degrease with Crown White Spirit or degreaser followed by a fresh water rinse. Abrasive Blast Clean to SA 2½ of Swedish Standard SIS 055900 - 1967. Alternatively, Wire Brush to ST 3 of the same standard	None usually. For more durable finish, 1 liberal coat of Crown Two-pack Epoxy Zinc Rich Primer	1-2 coats Crown Two Pack Epoxy Coal Tar Composition diluted with Crown Two Pack Epoxy Thinner as per application method
New Galvanised Iron & Aluminium	Degrease with Crown White Spirit or degreaser followed by a fresh water rinse. Test for "water break free" surface prior to priming. 1 coat of 1-pack Etch Primer or Mordant Solution	None- it is self-priming	2 coats Crown Two Pack Epoxy Coal Tar Composition diluted with Crown Two Pack Epoxy Thinner as per application method
New Plaster/ Concrete	Ensure moisture content <3% Remove loose particles	1 coat Crown Two Pack Epoxy Coal Tar Composition diluted up to 10% by volume with Crown Two Pack Epoxy Thinner	2 coats Crown Two Pack Epoxy Coal Tar Composition diluted with Crown Two Pack Epoxy Thinner as per application method

Precautions:

1. Do not apply when ambient temperatures are below 10°C
2. To avoid shade variation, especially for projects, ensure that batch numbers match or blend different batch numbers prior to applying
3. Mix base and hardener strictly in accordance with the mixing ratios indicated above. Stir well and allow to stand for 15-20 minutes before use. Thin the 1st coat up to 20% with Crown Thinner for 2-Pack Epoxy to ease brushing and to improve adhesion with the floor screed.
4. Stir paint thoroughly before use and intermittently during use to avoid settling
5. Avoid applying heavy coatings above 35µm DFT to prevent wrinkling
6. Ensure the substrate is completely dry as moisture will react with the product and produce a milky appearance.
7. Avoid the use of cheap solvents as these may affect gloss or drying time

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8. Allow 7 days to fully cure before filling water tanks, pools etc.
9. Do not use in drinking water tanks, fishponds etc.
10. Do not apply over surfaces previously painted with finishes other than epoxy

Availability: From Crown Depots in Nairobi, Kisumu, Mombasa, Meru, Nyeri, Eldoret, Arusha, Mwanza, Dar es Salaam, Kigali and through Crown Stockists.

Storage Conditions: Store under cool dry conditions away from direct sunlight, heat and extreme cold.

Disclaimer: The recommendations contained herein are given in good faith and meant to guide the user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Crown Paints Kenya PLC control. Technology may change with time, necessitating changes to this Technical Data Sheet (TDS). Crown Paints Kenya PLC reserves the right to amend the TDS without any further notice. It is the responsibility of the user to ensure that the latest TDS is being used for reference.



For additional health & safety information, please refer to our Material Safety Data Sheet (MSDS)