

Crown Two Pack Epoxy Coal Tar Composition

PRODUCT DESCRIPTION

Type: A twin-pack, epoxy resin-based coating cured with modified amine

Uses: Suitable for INTERIOR use to provide an attractive high gloss and durable, chemical and water-resistant finish. Not to be used for overcoating previously single pack varnished surfaces unless all varnish coatings have been removed.

Substrates: Suitably prepared and primed metal, concrete, fiberglass, plastic and woodwork in chemical plants, laboratories, hospitals, dairies, breweries, food factories, bottling plants etc, and for general use in high traffic areas in public buildings. An ideal industrial finish for coating wooden and metal furniture, machinery and other manufactured items.

Advantages: Hard-wearing. Excellent chemical, water, scratch, stain and abrasion resistance. Good flexibility and high resistance to impact and abrasion. Resistance to spillage or splashes of mild chemicals. Able to withstand dry heat of up to 100°C and 120°C degrees C intermittent

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: Available in White, Black, Clear & limited shades from Crown Industrial shade card

Pack Sizes: 1 litre and 4 litres

Finish: Gloss

Volume solids: 50% (based on ASTM D2697)

Thinner & equipment cleaner: Two pack Epoxy Thinner

Mixing/ Dilution Ratio: 3:1:1 by volume Base Paint: Hardener: Two Pack Epoxy Thinner. This may be varied according to application method; less for brush and more for spray as required. 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.

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: Surface dry in 2 hours, re-coatable in 14 hours. Attains maximum hardness 7 days after application

D.F.T.: Min. 25 microns. Max. 35 microns.

Chemical resistance: Resistant to chemical fumes and splashes, acids, alkalis.

TECHNICAL DATA SHEET



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APPLICATION DATA:

The product can be applied by: Apply by brush, roller or spray. For spray application masks should be worn.

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

9 - 11 m²/l per coat.

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
Mild Steel	Degrease. Remove rust using Rust Remover	2-pack Epoxy Zinc Phosphate Primer	1 - 2 coats Two-pack Epoxy Enamel
Galvanised Iron & Aluminium	Degrease with White Spirit or Degreaser. Apply 1 coat 2-pack Etch Primer	2-pack Epoxy Zinc Phosphate Primer	1 - 2 coats Two-pack Epoxy Enamel
Plastic and Fibreglass	Degrease with White Spirit or Degreaser. Apply 1 coat 2-pack Etch Primer	None	1 - 2 coats Two-pack Epoxy Enamel
Woodwork	Moisture content < 10% Sand along the grain	2-pack Epoxy Zinc Phosphate Primer	1 - 2 coats Two-pack Epoxy Enamel
Concrete or Plaster	Moisture content < 10% Remove loose debris and laitance	None	1 - 2 coats Two-pack Epoxy Enamel

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 2-pack Epoxy Enamel and produce a milky appearance.
7. When coating new and sanded parquet wood block floors, ensure that all surface dust and contamination is completely removed prior to coating. It is recommended that dust from the floor surface and between the timber joints should be removed a few minutes before coating using a brush and then a cloth dipped in the Two Pack Epoxy Thinner.
8. To obtain a smooth finish, each coat must be rubbed down with fine sandpaper, preferably using fine waterproof abrasive paper. Wipe clean before overcoating.
9. To obtain a smooth, high-gloss finish, the application of several thin coats is recommended. Do not apply too thickly and avoid over brushing.
10. Avoid the use of cheap solvents as these may affect gloss or drying time

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11. Allow 7 days to fully cure before filling water tanks, pools etc.
12. Do not use in drinking water tanks, fishponds etc.
13. 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)