

Crown 2K Acrylic Enamel

Product Description

Type: A two component Acrylic resin-based coating cured with isocyanate hardener

Recommended use: For the re-coating and repairing of commercial and passenger vehicles providing a superior appearance and exterior durability

Substrates: Suitably primed or previously painted mild steel, galvanised iron, aluminium, fibreglass and wood.

Advantages: Durable. Excellent UV protection and colour retention. Excellent resistance petrol, mild chemicals, mechanical abrasion and harsh weather conditions.

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 required in confined areas to ensure proper drying.

PRODUCT DATA:

Colour Range: A range of solid colours, toners & metallic silver plus clear.

Pack Sizes: 1 litre and 4 litres Base. ¼ litre and 1L Hardener

Finish: High Gloss

Thinner & equipment cleaner: 2K Acrylic Thinner

Solids: 60%-62% (by weight).

Supply Viscosity: 128 -132 seconds B4 Cup @25°C.

Dry Film Thickness: 40-45 µm.

Hardness: Minimum 4H (after 24 hours).

Gloss: Minimum 94% @ 20° angle

Flexibility: Passes Conical Mandrel (7mm) after 24 hours.

CHEMICAL CHARACTERISTICS:

Acid Resistance: Passes 0.1 (N) H₂SO₄ for 2 hours at 30 degrees C.

Petrol Resistance: Passes 4 hours immersion at 25 degrees C.

Humidity and Salt Spray: Passes 168 hours and 96 hours respectively. (As per ASTM specification)

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APPLICATION DATA:

The product can be applied by: Spray. Brush may also be used for lower quality jobs

Mixing Ratio: 4 parts Base: 1 part Hardener: 1 part Thinner (by volume)

Mixing: This product is highly susceptible to moisture and should be mixed/stored in dry, non-humid conditions. After mixing base, hardener and thinner in the correct ratio, allow to stand for 5-7 minutes for bubbles/effervescence to subside, before use.

Hardener contains isocyanate - ensure adequate ventilation and good booth extraction when spraying and put on respirator

Application Viscosity: 20 -22 seconds B4 Cup @25°C

Application Pressure: 45 -50 PSI

Spreading Capacity per coat: Depends on film thickness applied, primer porosity, imperfections, temperature & wastage during painting.

8 – 10 m²/l per coat. Maximum spread rate per coat is obtained at minimum dry film thickness and vice versa.

Drying time

Surface Temperature	Touch Dry	Hard Dry	Overcoating/ Repair Time	Potlife
15 – 25°C	1 hour	6 hours	6 hours	8 hours
26 – 30°C	¾ hour	4 -5 hours	5 hours	6 hours
31 – 35°C	½ hour	3 hours	4 hours	4 hours

For increased productivity, Duco 2K Acrylic Enamel can be baked/ stoved at 60 – 70°C for 45 minutes after a 10 minute flash off

Surface preparation & Paint System:

Surface	Preparation	Primer	Topcoat
New Mild Steel	Degrease. Repair dents. Sand with P80 - P120 sand paper	Duco 2K Acrylic Primer	2 coats Duco 2K Acrylic Enamel
New Galvanised Iron, Aluminium & Fibreglass	Degrease. Repair dents. Sand with P80-P120 sand paper 1 coat 2K Etch Primer	Duco 2K Acrylic Primer	2 coats Duco 2K Acrylic Enamel
New wood	Ensure the wood is dry Sand along the grain with P320 sandpaper Dust off with cloth dampened in thinner	Duco 2K Acrylic Primer	2 coats Duco 2K Acrylic Enamel
Surfaces previously painted in 2K Acrylic only	Remove loose paint Remove rust with rust remover Sand with P320-P400 sand paper	Patch prime bare areas with Duco 2K Acrylic Primer	2 coats Duco 2K Acrylic Enamel

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

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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)