# TECHNICAL DATA SHEET

If you like it... Crown it!

# Crown Coil Coating Backcoat

**PRODUCT DESCRIPTION**

**Type**: Crown Coil Coating Backcoat is a single component, polyester resin-based metal coating to give back side protection to metals finished with Coil Coating. It can also be used as a primer to be topcoated with Coil Coating
**Uses**: Protection and decoration of back side of coil coated metal
**Substrates**: Suitably prepared hot dip galvanised iron and cold rolled steel
**Advantages**: Good adhesion and flexibility. Good corrosion, chemical, abrasion and moisture resistance.

**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. 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**: | Grey. Customer specific colours available on request |
| **Pack Sizes**: | 20 litres and 200 litres |
| **Finish**: | Semi-Gloss as per the customer specification |
| **Thinner & equipment cleaner**: | Methyl Ethyl Ketone (MEK) |
| **Thinning**: | Supplied Ready For Use. |
| **Stoving Times**: | 40 sec at 220 to 235°C. |
| **Theoretical WFT**: | 10 – 20 µm. Process WFT can vary depending on roller speed settings. |
| **DFT:** | 5 – 10µm |
| **Shelf Life:** | 6 months |

**APPLICATION DATA:**

**The product can be applied by**: Reverse Roller coating

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

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

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**Surface preparation & Paint System:**

| Surface | Preparation | Primer | Backcoat |
|---|---|---|---|
| Hot Galvanised Iron or Cold Rolled Steel | Degrease using a caustic bath. Chromate using available method. Pressure wash using clean water, quench and cool before entering coating line | Not Applicable | 1 coat Crown Coil Coating Backcoat applied by Roller |

**Product Quality Parameters**

| Sr No | Parameter | Test Method | Specification |
|---|---|---|---|
| 1 | Colour | Spectrophotometer | dE < 1 |
| 2 | Viscosity @ 25°C | BS4 Cup | 95 ± 5 seconds |
| 3 | PMT | N/A | 230 - 240 |
| 4 | DFT | ASTM D1400 | 5 - 10µm |
| 5 | Gloss @ 45° | ASTM D523 | 40 - 55 |
| 6 | Pencil Hardness | ASTM D3363 | 2H minimum |
| 7 | Flexibility (T-bend) | ASTM D4145 | 2T, no peeling |
| 8 | Adhesion | ASTM D3359 | <5% peeling |
| 9 | Reverse Impact | ASTM D2794 | No cracking or adhesion loss |
| 10 | Cupping Test | ASTM E643 | Minimum 3mm |
| 11 | Solvent Resistance (MEK rubs) | ASTM D4752 | >50 |

**Precautions:**

1. Do not apply when substrate temperatures are below 10°C and above 40°C
2. Maintain recommended coating line speed and temperature setting

**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.

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Harmful | Irritant | Highly Flammable | Dangerous for the Environment

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



This Technical Data Sheet supersedes all those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Material Safety Data Sheet (MSDS) for this product. Please visit our website at www.crownpaints.co.ke