

Technical Data Sheet

ROVAL ZC Galvanizing Repair Metallic Spray



Description

Ideal for simple repairs of galvanized surfaces. The silver sheen color of ZC blends in with the color of hot-dip galvanized surfaces. 69% zinc in its dry film provides effective anti-corrosion performance and the aluminum pigments creates barrier protection. Suitable for repairing un-galvanized surfaces and for small touch-ups.

Aerosol product

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| Components | Zinc powder, Aluminum, Binder, Aromatic thinner |
| Internal capacity | Aerosol 420ml |
| Painting area | 1 m ² (2 coats) |
| Packaging | 24 cans / case |
| Application Conditions | Temperature 5-40°C, Humidity < 85% The metal substrate temperature < 50°C |
| Product warranty period | 3 years from manufacturing date (unopened) |
| Storage | Protect from sunshine and store in a well-ventilated place. |

Dry film

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|--------------------|---|
| Color | Silver |
| Gloss | Glossy |
| Zinc content | 69% (± 1%) by weight, use zinc ingot with a purity of 99.995%. Conforms to the standard ASTM A780 in regard of its use as repair coating for hot-dip galvanizing. |
| Dry film thickness | 40µm (20µm x 2 coat) |
| Drying time | For 20µm DFT at 20°C, humidity 65% condition >> Touch dry and overcoating: 20 min >> Fully cured: 24 hours |

Surface Preparation

ZC requires direct contact between the zinc dust in the film and the metal substrate for optimum performance. Since the surface must be dry and free of any other paint and contaminants, employ adequate methods to remove them thoroughly.

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| Salt | Use high pressure washing to remove salt deposits. |
| Oil | Wipe off perfectly with solvent rags. |
| Red rust, Old paint film Welded part | ISO8501 St3 Use a power tool to expose a clean metal surface. |
| Galvanized surface (Only white rust) | ISO8501 St2 Use a hand tool to remove white rust. |

Adequate agitation of products

Shake the aerosol can 30 times or more before use, because ZC contains a lot of powdered zinc, the contents may settle at the bottom of the can.

Coating method

Do not apply thick coat at once, but apply in two steps.

It is highly recommended to use **ROVAL cold galvanized compound** as a primer when using ZC for anticorrosion pretreatment in harsh corrosive environments.

Properties

| Test item | Method used | Result |
|-----------------|---|--|
| Hardness | JIS K5600-5-4:1999 (ISO/DIS15184:1996) Pencil scratching | Pencil 5B |
| Adhesion | JIS K5600-5-6:1999 (ISO2409:1992) Peel off a sticky tape on 25 cells check pattern (square: 1mm x 25) | No abnormality |
| Heat resistance | Electrical constant temp. drier 90°C, 24 hours | No abnormality |
| Cold resistance | Low temp. cycle test for 72 cycles <1 cycle> Left at -30°C for 5 hours and Left at +10°C for 1 hour | No abnormality |
| Salt spray | JIS K5600-7-1:1999 (ISO7253:1984) 5%NaCl (pH6.5~7.2) Temp of spray chamber: 35±1°C | 360 hours No abnormality other than white rust |