

**DESCRIPTION**

ROVAL Cold Galvanizing Spray High-Built Type (hereinafter "R") has 96% high zinc (ASTM D520 type II) content in its dry film. It provides long-lasting galvanic anti-corrosion protection to metals. The aerosol type —ROVAL Cold Galvanizing Spray High-Built Type provides complete coverage with 1 coat, saves time and labor and eliminates over-spraying, even on windy days. All formulations are VOC and MIR compliant, and free of lead hazards.

**PROPERTIES**

▲ High anti-corrosion performance——Cathodic Protection

Unlike normal paints, which only provide barrier protection, Roval products also provide cathodic protection on steel and ferrous metals. If rust occurs, it will not creep under the film. The anti-corrosion performance is dependent upon the content of zinc in the compound and the film thickness.

▲ Cathodic and Barrier Protection——Self healing

The zinc is sacrificed as it offers cathodic protection. In turn zinc corrosion products are formed, which cause the coating film become denser and more impervious to damaging elements. This restorative action makes the coating resistant to weather, water etc... If the coating film is damaged, fresh zinc is primed to provide galvanic action.

▲ Fading ——Due to exposure, the film's color will change

Zinc gradually oxidizes in the air, causing color of galvanization to change. Roval products possess similar fading characteristics to galvanization.

▲ Electric Conductivity

Roval products are not necessarily conductive paints, but they may conduct the static electricity from a human body, to the steel or ferrous metals underneath the film.

▲ Topcoat

R also is topcoat. R offers more anti-corrosion capability than other topcoat.

**APPLICATIONS**

This product can be used extensively in the maintenance and restoration of damaged or worn galvanized metal and for the long term anti-corrosion protection of steel/iron structures or equipment.

**TECHNICAL DATA**

- Color Gray
- Specific Gravity 1.84kg / L or 15.3lbs / gal (liquid paint)
- Theoretical Coverage 0.5m<sup>2</sup> or 5.4ft<sup>2</sup> (dft=3.2mil)
- Recommended Film Thickness 3.2mil or 80µm
- Heat-Resistance Continuous 212 °F (100°C) max  
Non-continuous 338 °F (170°C) max
- Cold-Resistance -76 °F (-60°C) for 1008hrs
- Dry to Touch Time 10-20 (at ambient temperature)
- Recoat time (Optional Top coat) 24 hrs  
(Topcoat can be applied. DO NOT TOPCOAT WITH ALKYD, ALKYD-MODIFIED ACRYLIC, OR LACQUER TYPE PRODUCTS.)
- Pencil hardness: B-HB  
(Hardness will be improved after exposure.)
- Cross cut test: 100 / 100
- Impact resistance: 500g 1/2"×50cm
- Salt Spray Test: 2184 hours  
(Tests recorded as high as 4032hours.)
- Exterior Exposure: 10 years no rust happened.
- Application Conditions Temperature 41 °F ~ 122 °F  
Humidity < 85%

- Shelf life: 2 year (Stored properly)

\* Can be used after being re-evaluated even post shelf life.

**DIRECTIONS**

**-Surface Preparation**

*R must be applied directly to steel or galvanized surfaces. If old paint exists on the surface to be painted, please remove it, or it will compromise the anti-corrosion performance.*

Steel/Iron surfaces:

Clean the surface to be free of all grease, oil, loose rust, and other foreign contaminants, especially marine salt. In a high corrosive environment, or if high anti corrosion performance is required, the following is recommended:

- Sandblasting to ISO Sa 2 1/2 or SSPC SP-10 is sufficient.
- Surface profile should be Rz30µm - 70µm.
- Salt deposit density should be below 50mg / m<sup>2</sup>.

Under normal atmospheric environments, or if sandblasting cannot be used, the following is recommended:

- Power tool clean to ISO St3 or SSPC SP-3 is sufficient.
- Surface profile should be Rz30µm - 70µm.
- Salt deposit density should be below 50mg / m<sup>2</sup>.

Galvanized surface:

Clean the surface to be free of all grease, oil, salt, loose rust and other foreign contaminants.

Rub the zinc salt with sandpaper to ISO St2 or SSPC SP-2.

Salt deposit density should be below 50mg / m<sup>2</sup>.

Rovalized surface:

Clean the surface to be free of all grease, oil, salt, loose rust and other foreign contaminants.

Rub the zinc salt with sandpaper to ISO St2, SSPC SP-2.

Salt deposit density should be below 50mg / m<sup>2</sup>.

**NOTE:** Coating must be done within two hours after surface preparation.

**AGITATION**

Shake can vigorously to achieve sufficient agitation.

Continue to shake can vigorously 30 seconds even after mixing balls start rattling. Shake often during use.

**APPLICATION**

Hold spray can approximately 8 inches (20cm) from surface when spraying.

**CLEAN-UP**

To prevent spray valve from clogging, clear spray valve by turning can upside down and pushing spray button for 2 seconds.

**PACKAGING**

16 oz (454g) 24 cans / case

**PRODUCTION NUMBER**

Sample: [W C R 09 06 25 C 09:15:30]

WCR: Product Code; 09: Year; 06: Month; 25: Day;

C: Batch Number (A: 1st, B: 2nd, C: 3rd...);

09:15:30: The time of filling