



# DRI-GARD RC 50

## High performance, water-based rust converter & anti-corrosion primer

**DRI-GARD RC 50** is a single-component, water-based rust converter that chemically neutralizes rust on metal surfaces to form a stable black magnetite compound. Unlike traditional rust converters which contains acids and requires thorough washing after the rust-conversion process, **DRI-GARD RC 50** utilizes a proprietary blend of rust stabilizing pigments that convert & fuse rust layers into a stable and ready-to-be painted black magnetite compound.

**DRI-GARD RC 50** eliminates the need to mechanically blast to white metal and can be used on welded spots for long term rust protection.

## FEATURES/BENEFITS

- ✓ Easy application
- ✓ Water-based
- ✓ Eliminates need for scraping, brushing or sandblasting before painting
- ✓ Seals, prolong and protects life of ferrous metal
- ✓ For interior/exterior use
- ✓ May be coated/painted over

## APPLICATION AREAS

- ✓ Metal roofs
- ✓ Railings
- ✓ Fences / Gates
- ✓ Bridges
- ✓ Towers
- ✓ Vehicles
- ✓ Structures
- ✓ Tanks
- ✓ Sheet metals
- ✓ Hard-to-sandblast areas
- ✓ Other rusted areas



**DRITECH CHEMICALS SDN. BHD. (1184082-K)**

23-3A, Oval Damansara, 685, Jalan Damansara, 60000 Kuala Lumpur, Malaysia  
TEL: +603 7735 6015, FAX: +603 7735 6016

## Product Data

Appearances / Colors	Milky off-white to tan liquid
Pack Size	5kg and 25kg
Storage	Up to 12 Months from date of production
Storage Condition	Store properly in original, unopened and undamaged sealed packaging in cool and dry conditions at temperatures <20°C. Protect from direct sunlight.

## Technical Data

Origin	Water-based organic polymers
Drying Time (at 30°C, 80% R.H.)	Set to touch: 20 minutes Hard Dry: 45 minutes
Recoat time	After 30 minutes
Overcoat Time	After 24 hours
Recommended Coverage	0.2 kg/m <sup>2</sup> per coat
Thinning / Cleaning	Do not dilute with water/solvent/thinner
Solid Content	35 ± 3 %

## SUBSTRATE PREPARATION

Apply on steel rust & aged paint over an anchor profile where mill scale has been removed by any prior sandblasting or by ultra-high pressure water jetting:

- Clean surface with a degreaser with good rinse ability to remove oils, grease, fuels, salts, other contaminants, to SSPC – SP 1. Rinse off cleaner with fresh water. Do NOT use acetone and ordinary dish washing detergents as these leave behind a residue of sulfonic acids or other unknown chemicals which interfere with paint adhesion.
- Remove loose flaking rust, weld slag, loose paint with power sanding tools, needle gun, descaler, wire brush or water blast; to SSPC SP 2, SP 3, SP 7 or SP 12.
- Prepared surface shall have a neutral pH of 6 – 8 before product application.
- Air and steel temperature shall be between 4.5°C and rising to 37.7°C & falling. Wait until morning dew is off the surface before coating. Do not apply within 4 hours of expected rain fall or fog. Prepared surface shall be visibly dry. Do not apply to sweating steel. **DRI-GARD RC 50** tolerates some moisture, but this does not include running, dripping or sweating steel.
- In enclosed compartments, there must be two-way air flow (ASTM Spec). Apply mechanical air movement of at least 10 – 20 atmosphere changes per hour. If temperature is low, add heat.
- It is advisable to prepare a test patch to ensure compatibility with substrate and follow-on coatings.
- To etch-prime aged tight paint, new fiberglass/aluminium: always test for required adhesion to substrate & coating compatibility. Remove contaminants from the surface, and small areas may be solvent-wiped with clean cloth.

## APPLICATION

**DRI-GARD RC 50** may be applied by bristle brush or short nap roller from a plastic or stainless pan. Spray application can be by pot sprayer or airless sprayer using a 19 – 21 tip. Do not mist during application. With air unit, work about 25cm from surface with a 15 – 25cm fan. Airless work depends on the equipment. Electrostatic works well.

Apply 9 – 10 mil wet coat (203 – 254 microns) checking with wet film gage. This will appear as a thick white/gray film with no rust showing through. The product turns from white to black with rust conversion.

There shall be no runs, sags, streaks, flashes, laps, pinholes or catering. Do not apply multiple coats of 8 – 10 mils WFT wet on wet. Do not pattern or groove. Deep grooves from poor application will re-rust.

If **DRI-GARD RC 50** turns gray upon application, a 2<sup>nd</sup> light coat is required to be applied to gray areas. Second coat, if needed to achieve correct 8 – 10 mil WFT should be applied when first coat is still damp and tacky. There shall be no picking up or rolling up of the first coat during second application.

Drying time is related to air circulation, temperature, film thickness, number of coats, and other site conditions. At 25°C, **DRI-GARD RC 50** should be dry to touch in 30 minutes.

Do not pour unused products from roller pan or air pot back into the original container. This is to prevent contamination.

Do not use product when relative humidity is >85%, and when rain is imminent.

Clean up with soapy water and rinse well.

## TOOLS

Clean all tools and application equipment with water immediately after use. Dried film can be washed using a good lacquer thinner.

## MIXING

**DRI-GARD RC 50** is supplied ready to use and should not be diluted with water.

## HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.