

CORROLESS QDR

RUST STABILISING PRIMER

DESCRIPTION

A quick drying, single component, rust stabilising primer, reinforced with self leafing glass flake.

PRODUCT FEATURES AND RECOMMENDED USES

- Fast overcoating - from only 30 minutes.
- Contains glass flake for improved impermeability and abrasion resistance.
- Designed for fast patch repair of localised damage, offering enhanced short term repair where turn-around times do not allow for normal recoating intervals.
- NATO Stock Number 0442-6850-25-150-0974.
- Applications include pipes, cranes, mechanical equipment, bridges, railings, tank externals and other structural steel.
- Contains Corroless Pigment

TECHNICAL DATA

Volume Solids (±2%)

QDR1&2: 45%.

QDR3: 41%.

Specific Gravity

QDR1&2: 1.45 kg/litre.

QDR3: 1.28 kg/litre.

Film Thickness

Wet Film QDR1&2: 111 microns.

QDR3: 122 microns.

Dry Film QDR1&2: 50 microns.

QDR3: 50 microns.

(Always apply two coats).

Theoretical Coverage

QDR1&2: 9.0 m²/litre, QDR3: 8.2 m²/litre, at 50 microns dft. Practical coverage rate can vary depending on application method, temperature, profile and porosity of the substrate.

Application

Airless spray, brush or roller.

Mixing Ratio

Single pack.

Pot Life (at 18°C)

Not applicable.

Drying Times at recommended dft

	10°C	18°C	30°C
Dust Free	30 minutes	20 minutes	15 minutes
Hard Dry	45 minutes	30 minutes	20 minutes
Overcoating Min	45 minutes	30 minutes	20 minutes
Max	8 days	7 days	3 days

Thinners and Cleaning solvent

Corroless Thinners No 3. (Solvent Gun Wash may be used for cleaning only).

Finish

Low Gloss.

Colours

QDR1 - Red brown QDR2 – Buff QDR3 – Black.

Storage

Product has a shelf life of 2 years when stored in dry, cool conditions and protected from frost.

CORROLESS Corrosion Control, Worldwide Headquarters, Kelvin Way, WEST BROMWICH, West Midlands B70 7JZ,

Telephone:
+44 (0)121 524 2235

Fax:
+44 (0)121 553 2787

Web:
www.corroless.com

e-mail:
contact@corroless.com

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APPLICATION DETAILS

Surface Preparation

If required, due to obvious dirt/grease contamination or suspected salt or chemical contamination, clean all surfaces with a water soluble degreaser, wash down with clean, fresh water and allow to dry, before commencing main preparation.

Recommended substrate: Steel. (Corroless QDR can also be applied to other substrates – further advice available on request).

Manual preparation: Prepare using rust scrapers, chipping hammers, needle guns, wire brushes etc. to St2 standard of EN ISO 8501-1:2007 or equivalent. Ensure all scale is removed. Wash down with clean fresh water prior to application. Allow to dry.

Mechanical Preparation: Blast clean to minimum Sa1 standard of EN ISO 8501-1:2007 or equivalent, with a surface profile of 50 to 75 microns. Wash down with clean fresh water prior to application. Allow to dry.

New steel: All mill scale must be removed prior to application.

All surfaces when coated should be firm, clean, dry and free from all oil, grease, powdery flash rusting and other contamination.

Application

Method	Airless Spray	Conventional Spray	Brush	Roller
Output Fluid Pressure	3000 psi	Yes – thinning required	Yes	Yes
Tip size	13 - 15 thou			
Fan angle	30-65°			

Spraying

For conventional spray up to 10% Corroless Thinners No.3 should be added.

Brushing/Rolling

When brushing apply unthinned, lay on, do not over brush. When rolling use a lambs wool roller and a maximum addition of 5% Corroless Thinners No.3.

Mixing

Stir thoroughly before use.

Stripe coating

Stripe coat all edges, nuts, bolts, welds etc.

Application Temperature

Range 2°C - 35°C.

Ambient Conditions

Only apply in conditions of good ventilation, which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. During application and drying time the Relative Humidity should not exceed 85% and the steel temperature should remain at least 3°C above the dew point.

Overcoating

Overcoatable with Corroless S, SHB, and RF16. If overcoating time exceeds 24 hours and contamination has occurred, clean using a detergent solution/fresh water rinse and allow to dry before continuing. If maximum overcoating times are exceeded, abrade the surface to provide a key, wash down with clean fresh water and allow to dry.

Flash Point

21°C - 32°C.

Volatile Organic Content (g/litre)

QDR1 444 QDR2 435 QDR3 514

Health and Safety

At all times observe precautionary notices on containers. Refer to Material Safety Data Sheets available from Corroless on request.