

PRODUCT DATA

HIGH-PERFORMANCE PRIMER 9170/9180

DESCRIPTION

RUST-OLEUM® High-Performance Epoxy System Red Primer 9170 and Grey Primer 9180 are fast drying primers based on two-component, solvent-based epoxy resins. The products contain special rust-inhibitive pigments and are lead- and chromate free.

RECOMMENDED USES

RUST-OLEUM High-Performance Epoxy System Red Primer 9170 and Grey Primer 9180 should be used on bare steel, on blasted steel and properly prepared galvanized substrates or as an intermediate coat.

RUST-OLEUM 9100 Primers are primarily intended for spray application; brush and roller application for touch-up only.

RUST-OLEUM 9100 Primers can be recoated with RUST-OLEUM 9100 Topcoats assuring the appropriate protection against corrosion, strong chemicals, acids, alkalis and solvents; frequent product spillage and frequent chemical cleaning; high humidity and moisture conditions.

If good U.V. resistance is required Rust-O-Thane® Polyurethane Topcoat 9600 should be applied.

TECHNICAL DATA

Appearance:	Flat
Colour:	9170 red and 9180 grey
Density (mixed product):	1.52 kg/l 9170 Red / 1.49 kg/l 9180 Grey
Solids Content (mixed product):	52.1 % by volume 9170 Red / 52.2 % by volume 9180 Grey
Viscosity (mixed product):	95-125 KU / Krebs Stormer Units at 20°C 9170 Red 95-125 KU / Krebs Stormer Units at 20°C 9180 Grey
Recommended film thickness:	75 µm dry, equals 150 µm wet
VOC-content max:	421 g/l
Ready-to-use mixture:	499 g/l
Category	A/j
EU Limit values:	550 g/l (2007) / 500 g/l (2010)

Drying times	20°C/50% r.h.	10°C/60% r.h.	30°C/50% r.h.
To touch:	1 hour	2 hours	30 minutes
To handle:	2 hours	6 hours	1 hour
To recoat:	After 16 hours	After 24 hours	After 12 hours
Full hardness	8 days	14 days	5 days

Heat resistance: 150°C (dry heat)

Coverage

Theoretical:	± 7 m ² /l at 75 µm dry
Practical:	Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

SURFACE PREPARATION

Remove grease, oil and all other surface contaminations by alkaline or high pressure (steam) cleaning in combination with appropriate detergents. For optimum results remove rust, rust scale, mill scale and deteriorated coatings by abrasive blasting to Sa 2½ (ISO 8501-01 : 1988), blast profile max. 50 µm. Salts, "white rust" (on galvanized steel), etc. should be removed by washing with RUST-OLEUM Surfa-Etch 108 Etching Solution or by sweep blasting.

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Sand previous coatings, which are in good condition to remove gloss and to roughen the surface slightly, check compatibility. From surfaces to be submerged all previous coatings should be removed by abrasive blasting to Sa 3 (ISO 8501-1 : 1988), blast profile max. 50 µm. New concrete should cure and dry for at least 30 days prior to application of the coating. The surface must be clean and dry during application.

DIRECTION FOR USE

Stir individual components thoroughly before mixing them together. Use the boxing method or a low speed mixer. Stir individual components, 9170/9180 Base and 9103 Activator, thoroughly. Add 9103 Activator to base-material. Mix well; scrape material from sides and bottom of the can, until material assumes a uniform appearance. Pour mixture back into base material can and repeat previous action. In case of manual mixing use the boxing method. Mixing ratio: base: activator (9103) = 1 : 1 by volume
Induction time: 30 minutes for a 5 ltr. mix at 20°C
Pot-life: 8 hours for a 5 ltr. mix at 20°C

APPLICATION & THINNING

- Brush:** Up to 10 vol.%; RUST-OLEUM Thinner 160.
Use natural bristles, longhair brushes. Touch-up or small areas only.
- Roller:** Up to 10 vol.%; RUST-OLEUM Thinner 160.
Use short/medium nap polyamide (perlon 8 mm.) rollers.
Roller application may require 2 coats to achieve recommended d.f.t.
- Air-atomised spray:** Up to 20 vol.%; RUST-OLEUM Thinner 160.
Spray: Gravity cup and pressure cup.
Tip size: 1.2 -2.2 mm.
Atomising pressure: 2 - 4 bar.
- Airless spray:** 5-15 vol.%; RUST-OLEUM Thinner 160.
Pneumatic and electric airless equipment.
Tip size: 0.013-0.018 inch.
Fluid pressure: 150 - 250 bar.
- Cleanup:** Use RUST-OLEUM Thinner 160.
Preferably use disposable brushes and/or rollers.

APPLICATION CONDITIONS

Temperature of air and substrate between 5 and 35°C and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

REMARKS

Maximum dry film thickness per coat: 125 µm dry, equals 250 µm wet.

SAFETY

Consult Safety Data Sheet and Safety Information printed on the can.

SHELLIFE / STORAGE CONDITIONS

5 years from date of production in unopened cans, if stored in dry, well ventilated areas, not in direct sunlight at temperatures between 5° and 35°C.

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