

PRODUCT DATA

WATER-BASED EPOXY SYSTEM TOPCOATS 5900

DESCRIPTION

RUST-OLEUM Water-Based Epoxy System Topcoats 5900 are based on two-component, low odour, water-based epoxy resins.

RECOMMENDED USES

RUST-OLEUM Water-Based Epoxy System Topcoats 5900 should be used on concrete floors and walls, masonry and mineral fibre board, and as a topcoat for steel and galvanised steel surfaces primed with RUST-OLEUM 5900 Primers.

RUST-OLEUM 5900 Topcoats can be applied by brush, roller and spray.

RUST-OLEUM 5900 Topcoats resist light to moderate abrasion, intermittent high humidity and moisture, regular chemical cleaning and spillage of chemicals (see chemical resistance guide).

RUST-OLEUM 5900 Topcoats can be applied on cleaned, sound mineral substrates; sound, well prepared previous coatings; porous substrates should be primed with diluted RUST-OLEUM 5910 Transparent. For metal substrates the RUST-OLEUM 5900 Topcoats should be applied on RUST-OLEUM 5900 Primers.

RUST-OLEUM 5900 Topcoats are classified Class 1 Surface Spread of Flame according BS 476; part 7 : 1987.

TECHNICAL DATA

Appearance:	Satin
Colour:	See colour card
Density:	1.19 kg/l ± 0.06 (mixed product) depending on colour
Solids Content:	32.5 % by volume ± 2.5 (mixed product) depending on colour
Viscosity:	100-120 KU / Krebs Stormer Units at 20°C (mixed product)
Recommended film thickness:	50 µm dry, equals 150 µm wet
VOC-content:	<10 g/l

Drying times	20°C/50% r.h.	10°C/60% r.h.	30°C/50% r.h.
To touch:	4 hours	12 hours	2 hours
To handle:	6 hours	24 hours	4 hours
To recoat:	After 6 hours	After 24 hours	After 4 hours
Full hardness	7 days	14 days	5 days

Heat resistance: 150°C (dry heat), at elevated temperatures discoloration may occur.

Coverage

Theoretical:	6.5 m ² /l at 50 µm dry (depending on colour)
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 with RUST-OLEUM FK 111 Fungicidal Cleaning Solution or by alkaline or high pressure (steam) cleaning.

Sand previous coatings which are in good condition to roughen the surface slightly.

Remove rust, rust scale, mill scale, debris and deteriorated coatings by appropriate means and prime or touch up with the recommended RUST-OLEUM Water-based Epoxy Primers 5900. Remove laitance and deteriorated coatings from the concrete.

New concrete should cure and dry for at least 30 days prior to the application of the coatings. Particularly when the weather is hot or the relative humidity low, the cleaned concrete, brick, asbestos, etc. should be damped with fresh water before applying the coating.

Rust-Oleum Netherlands B.V.

Braak 1, 4704 RJ
P.O. Box 138, 4700 AC
Roosendaal, The Netherlands
T +31 (0)165 593 636
F +31 (0)165 593 600
info.nl@ro-m.com
www.ro-m.com

N.V. Martin Mathys S.A

Kolenbergstraat 23
B - 3545 Zelem
Halen, Belgium
T +32 (0)13 460 200
F +32 (0)13 460 201
info.be@ro-m.com
www.ro-m.com

Rust-Oleum France S.A

11, Rue Jules Verne, B.P. 39
95322 St-Leu-la-Forêt Cedex
France
T +33 (0)130 400 044
F +33 (0)130 409 980
info.fr@ro-m.com
www.ro-m.com

Rust-Oleum UK Ltd.

Unit 5D, Alexandra Way
Ashchurch B. Centre,
Tewkesbury, Gloucestershire
GL20 8NB, United Kingdom
T +44 (0)1684 273 333
F +44 (0)1684 273 331
info.uk@ro-m.com
www.ro-m.com

Rust-Oleum Mathys Italia s.r.l.

Via Mazzetta 36, 13856
Vigliano Biellese BI, Italia
T +39 015 8122 160
F +39 015 8122 161
info.it@ro-m.com
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DIRECTION FOR USE

Stir individual components thoroughly before mixing them together. Use the boxing method or a low speed mixer.

Mixing ratio: Activator (5901) : base = 1 : 1 by volume.

Induction time: 30 minutes for a 5 ltr. mix at 20°C

Pot-life: 5 hours for a 5 ltr. mix at 20 °C., after 5 hours the material should not be used anymore.

APPLICATION & THINNING

Brush/Roller: Sparingly, if required, with water
Use brushes based on a mixture of synthetic/natural bristles or medium nap (12 mm), woven acrylic or polyester rollers.
Roller application may require 2 coats to achieve recommended d.f.t.

Air-atomised spray: Up to 5 vol. % water.
Gravity cup and pressure cup.
Tip size: 1.2 -1.8 mm.
Atomizing pressure: 2 - 4 bar.

Airless spray: Sparingly, if required, with water.
Pneumatic and electric airless equipment.
Tip size: 0.018-0.024 inch Fluid pressure: 150 - 225 bar.

Cleanup: Immediately after application with (warm) water and soap. If the coating material has dried use RUST-OLEUM Thinner 190.
Spray equipment should be flushed every 2 hours with (hot) water to avoid build-up of cured material. Preferably use disposable brushes and/or rollers.

APPLICATION CONDITIONS

Temperature of air and substrate between 5 and 35°C and relative humidity below 70%. The substrate temperature must be at least 5°C above dew point.

REMARKS

Maximum dry film thickness per coat: 100 µm dry, equals 300 µm wet. For mineral substrates the first clear coat (RUST-OLEUM 5910) should be diluted with up to 40% of water. If the relative humidity is high during drying, curing might be retarded.

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.

Keep from freezing.

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