

PRODUCT DATA

RUST-O-THANE® 9900

DESCRIPTION

RUST-OLEUM Rust-O-Thane® Coatings 9900 are based on two-component, solvent-based aliphatic acrylic polyurethane resins.

RECOMMENDED USES

RUST-OLEUM Rust-O-Thane Coatings 9900 are designed for application on manually prepared rusted steel surfaces and can also be used on clean, blasted steel, primed steel, concrete and previously coated surfaces in light-medium exposure conditions (C1-C3). RUST-OLEUM Coatings 9900 can be applied on RUST-OLEUM High Performance Epoxy system 9100 in heavy/extreme exposure conditions (C4-C5) RUST-OLEUM Coatings 9900 can be applied on cleaned, sound mineral substrates, sound, well prepared previous coatings; porous substrates should be primed with RUST-OLEUM Impregnation Primer 5401; very dense substrates, like ceramic tiles, should be primed with RUST-OLEUM Super Adhesive 3333. RUST-OLEUM Coatings 9900 offer appropriate protection against U.V, chemicals, acids, alkalis and solvents; frequent product spillage and chemical cleaning; high humidity and moisture conditions. RUST-OLEUM Coatings 9900 are primarily intended for spray application and can also be applied by brush and roller.

TECHNICAL DATA

Appearance:	Gloss
Colour:	See colour card, tintable
Density:	1,1-1,4 (mixed product) depending on colour
Solids Content:	58-62 % by volume (mixed product) depending on colour
Viscosity:	80-100 KU/Krebs Stormer Units at 20°C (mixed product)
Recommended film thickness:	75 µm dry, equals 125 µm wet
VOC-content max.:	423 g/l max.
Ready-to-use mixture:	498 g/l max.
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:	6 hours	16 hours	4 hours
To handle:	12 hours	24 hours	6 hours
To recoat:	After 8 hours Within 72 hours	After 24 hours Within 120 hours	After 6 hours Within 60 hours
Full hardness	7 days	14 days	5 days

Heat resistance: 150°C (dry heat), above 65°C discoloration may occur.

Coverage

Theoretical: 8 m²/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. Sand previous coatings that are in good condition to remove gloss and to roughen the surface slightly check compatibility. The surface must be clean and dry during application.

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Steel: Remove loose rust, mill scale and deteriorated coatings by hand or power tool cleaning to St 2/3 (ISO 12944-4: 1998). Large areas may be brush-off blasted to Sa 2 (ISO 12944-4: 1998), blast profile max. 30 µm.

Concrete and masonry: New concrete or masonry should cure and dry for at least 30 days before applying the coating system. Remove laitance, any loose or unsound concrete or deteriorated coatings. Smooth concrete should be roughened.

DIRECTION FOR USE

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

Mixing ratio: Base: activator (9901) = 5 : 1 by volume

Induction time: Not required.

For brush/roller 30 minutes is recommended for a 5 ltr. mix at 20°C

Pot-life: 2,5 hours for a 5 ltr. mix at 20°C and 50% RH

2 hours for a 5 ltr. mix at 20°C and 80% RH

APPLICATION & THINNING

Brush/Roller: Up to max 5 vol.%; RUST-OLEUM Thinner 190.

Use natural bristles, longhair brushes or medium nap polyamide (perlon 8-12 mm.) rollers. Roller application requires 2 coats to achieve recommended d.f.t.

Spray application: when spraying this product apply a mist-coat first, allow to flash-off for 10 minutes, then apply a full cross-coat. After 2 hours a second coat can be applied wet in wet.

Air-atomised spray: 10-20 vol.%; RUST-OLEUM Thinner 191.
Gravity cup, pressure cup, suction cup and HVLP.
Tip size: 1.2 -1.8 mm Atomising pressure: 2 - 4 bar.

Airless spray: Up to max 10% vol.%; RUST-OLEUM Thinner 191.
Pneumatic and electric airless equipment.
Tip size: 0.013-0.017 inch Fluid pressure: 125 - 175 bar.

Cleanup: Use RUST-OLEUM Thinner 160 or 190
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 210 µm wet.

For use on floors submitted to heavy abrasion, standard and medium colours are recommended. In case of deep and/or bright tones (red, yellow, orange, green, blue etc), it is advised to apply a clear topcoat.

SAFETY

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

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SHELLIFE / STORAGE CONDITIONS

Base material: 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.

Activator: 1 year 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.

Opened activator cans must be used within 1 week.

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