

PRODUCT DATA

HIGH PERFORMANCE EPOXY SYSTEM 9100

DESCRIPTION

RUST-OLEUM High Performance System 9100 Topcoats are based on two-component, (low) solvent-based epoxy resins. The products contain special rust-inhibitive pigments and are lead- and chromate free.

SYSTEMS

Base 9100 + Activator 9101: Standard grade

Base 9100 + Activator 9101HS: High Solids grade

Base 9100 + Activator 9101WG: Winter Grade, high solids, application at low temperature

RECOMMENDED USES

RUST-OLEUM High Performance System 9100 Topcoats 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.

RUST-OLEUM 9100 Topcoats are primarily intended for brush and airless spray application and can also be applied by roller.

RUST-OLEUM 9100 Topcoats offer appropriate protection against strong chemicals, acids, alkalis and solvents; frequent product spillage and chemical cleaning; high humidity and moisture conditions. If good U.V. resistance is required RUST-OLEUM Polyurethane Topcoats 9200, 9600 or 9900 should be applied (except for the clear coatings).

RUST-OLEUM 9100 Topcoats 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 9100 Topcoats can be applied directly on RUST-OLEUM 9170/9180 Primers, RUST-OLEUM 9169 Epoxy Rust Primer.

TECHNICAL DATA

| Base/Activator | HIGH SOLIDS | | |
|--|---------------------------------|-------------------------------|--------------------------------|
| | 9100/9101 | 9100/9101HS | 9100/9101WG |
| Mixing ratio (by volume) | 1 : 1 | 1 : 1 | 2,5 : 2 |
| Induction time | 30 minutes (20°C/5 l) | 15 minutes (20°C/5 l) | 20 minutes (10°C/4,5 l) |
| Pot life | 3 hours at 20°C | 2,5 hours at 20°C | 2 hours at 10°C |
| Appearance | High gloss | High gloss | Gloss |
| Colour | See colour card Colourshop | See colour card Colourshop | See colour card Colourshop |
| Density (mixed product) | 1,25 kg/l ± 0.1 | 1,40 kg/l ± 0.1 | 1,37 kg/l ± 0.1 |
| Solids content (vol %) (mixed product) | 75 volume % | 91 volume % | 88,7 volume % |
| Viscosity (Krebs Stormer Units at 20C) | 110-135 | 100-120 | 110-135 |
| Recommended dry film thickness | 125 µm | 125 µm | 125 µm |
| Corresponding wet film thickness | 170 µm | 140 µm | 145µm |
| Heat resistance: | Immersion or wet heat | 50°C | 50°C |
| | Dry heat | 100°C | 100°C |
| Above 65°C discoloration may occur | | | |
| VOC-content max.: | 233 g/l | 99 g/l | 120 g/l |
| Ready-to-use mixture: | 293 g/l | 99 g/l | 190 g/l |
| Category: | A/j | A/j | A/j |
| EU Limit values: | 550 g/l (2007) / 500 g/l (2010) | | |
| Thinning for application: | Up to 10 vol.% Thinner 160 | Do not dilute | Up to 10 vol.% Thinner 160. |

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Coverage

Theoretical at 125 µm dry: | 6 m²/l | 7.3 m²/l | 7 m²/l
 Practical: Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

Drying times

| System | Temp (°C) / RV (%) | To touch (hour) | To handle (hour) | To recoat (hour) | Full hardness (days) |
|-------------|--------------------|-----------------|------------------|------------------------|----------------------|
| 9100/9101 | 30/50 | 4 | 6 | After 12 within 72 | 5 |
| | 20/50 | 6 | 12 | After 16 within 72 | 7 |
| | 10/60 | 12 | 36 | After 36 within 96 | 14 |
| 9100/9101HS | 30/50 | 4 | 8 | After 16 within 72 | 7 |
| | 20/50 | 6 | 12 | After 16 within 72 | 10 |
| | 10/60 | 12 | 36 | After 36 within 96 | 16 |
| 9100/9101WG | 15/50 | 8 | 16 | After 16 within 72 | 10 |
| | 0/60 | 24 | 48 | After 48 within 9 days | 21 |

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, which are in good condition to remove gloss and to roughen the surface slightly, check compatibility. The surface must be clean and dry during application.

Steel: Remove loose rust, mill scale and deteriorated coatings by hand or power tool cleaning to St 2/3 (ISO 8501-01 : 1988). Large areas may be brush-off blasted to Sa 2 (ISO 8501-01: 1988), blast profile max. 50 µm.

For immersion purposes, prepare to Sa 3 (ISO 8501-01 : 1988), blast profile max. 75 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 a mechanical low speed mixer. Mix the product carefully during 3 minutes. Temperature of the mixed materials should be at least 10°C.

APPLICATION

Brush/Roller: Use natural bristles, long hair brushes or medium nap polyamide (perlon) 16-20 mm rollers. Roller application requires 2 coats to achieve recommended d.f.t.

Airless spray: Pneumatic and electric airless equipment.
 Tip size: 0.013-0.021 inch.
 Fluid pressure: 150 - 225 bar.
 Avoid excessive film thickness.

Cleanup: Use RUST-OLEUM Thinner 160.
 Preferably use disposable brushes and/or rollers.

APPLICATION CONDITIONS

Temperature of air and substrate between 10 and 35°C (for the **9100/9101WG** between 0 and 15°C) and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

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REMARKS

Maximum dry film thickness per coat: 250 µm dry, equals 335µm wet (Standard)
275 µm wet (**9100/9101HS**)
285 µm wet (**9100/9101WG**)

When the 9100 is in contact with water or chemicals discoloration can occur, especially when colours are made with the Colour Shop.

After about 1 year the colour of the wintergrade activator (9101WG) can become a little darker. This can give an effect in light colours. We therefore advise for bigger projects to use activators from one batch. The batch number is printed on the can.

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.

In combination with primer Rust-Oleum 569, the system will not resist mechanical damage.

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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