

RUST-OLEUM®
— INDUSTRIAL —



9100 HIGH PERFORMANCE EPOXY

High build chemical resistant & anti-corrosion epoxy

- 2x thicker than regular epoxies (125 micron dry)
- Very resistant against abrasion and chemicals
- Contains a high amount of rust inhibitors
- Can be applied on metal and floors
- Tintable in almost any colour

KNOW-HOW TO PROTECT™

WWW.RUST-OLEUM.EU

9100 HIGH PERFORMANCE EPOXY

DESCRIPTION

Two-pack, high layer thickness glossy epoxy, resistant to corrosion and chemicals, suitable for applications on metal or floors.

RECOMMENDED USE

9100 high Performance can be applied on: manually prepared rusted steel surfaces, new, blasted, primed steel; concrete and previously compatible coated surfaces. 9100 Topcoats offer appropriate protection against strong chemicals, acids, alkalis and solvents; frequent product spillage and chemical cleaning; high humidity and moisture conditions.

RECOMMENDED SYSTEM

Topcoat: for U.V. resistance: polyurethane Topcoats 9200 or 9600 should be applied (except for the clear coatings).

Primers: porous mineral substrates: 5401 or 5421 Impregnation Primer.

Very dense substrates, like ceramic tiles: Super Adhesive 3333.

9100 Topcoats can be applied on 9169, 9170 and 9180 Metal Primers.

TECHNICAL DATA

Density (g/cm ³):	1,32
Gloss Level:	Gloss
Corrosion Class:	C4 high protection
Solids content in volume:	89,3 %
Heat Resistance:	Immersion or wet heat: 50°C - Dry Heat: 100°C
Mixing Ratio:	Vol: 2 : 1

DRY TIMES BY 20° C/RH 50%

Touch dry:	6 hours - 8 hours
Dry to handle:	8 hours - 16 hours
Dry to recoat:	After 16 hours
Fully cured:	7 days
Pot Life:	90 minutes
Induction Time:	-

RECOMMENDED WET FILM THICKNESS

140 µm

RECOMMENDED DRY FILM THICKNESS

125 µm

THEORETICAL CONSUMPTION

7.15 m²/l

PRACTICAL CONSUMPTION

Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

SURFACE PREPARATION

Remove all dirt and contaminations by alkaline or high pressure (steam) cleaning in combination with appropriate detergent like Rust-Oleum ND14. Sand previous glossy coatings to roughen the surface slightly, check compatibility. The surface must be clean and dry.

Steel: Remove loose rust, mill scale and deteriorated coatings by hand or power tool cleaning to St 2/3 (ISO 8501-01 : 1988). Blast large areas 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 for at least 30 days before applying the coating system. Remove laitance, any loose or unsound concrete or coatings. Smooth concrete should be abraded except in case of use of a Rust-Oleum adhesion primer.

DIRECTIONS FOR USE

Stir individual components thoroughly before mixing them together, with a mechanical low speed mixer for 3 minutes.

APPLICATION CONDITIONS

Temperature of air, substrate and product between 0 and 35°C and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

APPLICATION & THINNING: BRUSH

Use natural bristles, long hair preferably disposable brushes. Dilution not normally required but if necessary dilute up to 10% volume with Thinner 160. Dilution will result in the requirement of VOC <100g/l not being met.

APPLICATION & THINNING: ROLLER

Use a medium nap polyamide 16-20 mm roller. Roller application requires 2 coats to achieve recommended d.f.t. Dilution not normally required but if necessary dilute up to 10% volume with Thinner 160. Dilution will result in the requirement of VOC <100g/l not being met.

APPLICATION & THINNING: AIRLESS SPRAY

Tip size 0.013-0.021 inch. Fluid pressure: 150 - 225 bar. Avoid excessive film thickness. Dilution not normally required but if necessary dilute up to 10% volume with Thinner 160. Dilution will result in the requirement of VOC <100g/l not being met.

APPLICATION & THINNING: AIR-ATOMISED SPRAY

Not recommended.

CLEANING OF EQUIPMENT / SPILLS

RUST-OLEUM Thinner 160.

Date issued: 20/03/2025

Available colours & pack sizes: Please refer to the respective product page on www.rust-oleum.eu for an overview of actual available colours and pack sizes.

Disclaimer: The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied him/herself independently as to the suitability of our products for his/her own particular purpose. In no event shall Rust-Oleum Europe be liable for consequential or incidental damages. Products must be stored, handled, and applied under conditions complying with Rust-Oleum Europe recommendations detailed within the latest copy of the product data sheet. It is the users responsibility to ensure that they have the current copy. Latest copies of the product data sheet is available for free and downloadable from www.rust-oleum.eu or upon a request to our Customer Services department. Rust-Oleum Europe reserves the right to change the properties of its' products without prior notification.

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REMARKS

Contact with water or chemicals can cause discolouration especially for colours made with tinting machine. Uses bases and activators from one same batch per project. The batch number is printed on the can.

For use on floors subjected to heavy abrasion, standard and medium colours are recommended. In the case of deep and/or bright tones (red, yellow, orange, green, blue etc) a clear polyurethane varnish should be applied.

Maximum dry film thickness per coat: 250µm

SAFETY DATA

VOC level: 98,5 g/l
VOC category: A/j
VOC limit: 500 g/l
Remarks regarding safety: Consult Safety Data Sheet and Safety Information printed on the can.

SHELF LIFE

Minimum of 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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