

PRODUCT DATA SOLVENT-FREE, HIGH-BUILD EPOXY SYSTEM 5500

DESCRIPTION

RUST-OLEUM® Solvent-free, High-Build Epoxy System 5500 is based on two-component epoxy resins.

RECOMMENDED USES

RUST-OLEUM Solvent-free, High-Build 5500 System is designed for application on concrete and masonry and can also be used on blasted steel.

RUST-OLEUM 5500 System is primarily intended for roller application and may also be applied by brush for small areas or touch-up only.

A two coat RUST-OLEUM 5500 System assures appropriate protection when contacted with chemicals (see chemical resistance guide), frequent chemical cleaning or high humidity and moisture conditions.

RUST-OLEUM 5500 System can be applied directly on properly cleaned, sound mineral substrates, sound, well prepared previous Epoxy coatings; porous substrates should be primed with RUST-OLEUM 5401 Impregnation Primer; very dense substrates, like ceramic tiles, should be primed with RUST-OLEUM Super Adhesive 3333.

RUST-OLEUM 5500 System can be applied directly on blasted steel or blasted galvanised steel; if required primed with RUST-OLEUM 9170/9180 Primer.

TECHNICAL DATA

Appearance:	High gloss
Colour:	See colour card
Density:	1.33 kg/ltr. ± 0.03 (mixed product) depending on colour 5510 Clear is 1.10 kg/ltr.
Solids Content:	100% by volume (mixed product)
Viscosity:	> 140 KU / Krebs Stormer Units at 20°C (mixed product)
Recommended film thickness:	150 µm dry, equals 150 µm wet
VOC-content max.	0 g/l
Ready-for-use mixture:	0 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:	24 hours	36 hours	16 hours
To recoat:	After 24 hours Within 72 hours	After 36 hours Within 96 hours	After 16 hours Within 72 hours
Full hardness:	10 days	3 weeks	7 days
For immersion*:	14 days	4 weeks	10 days

*) Actual curing time depends on the composition of the content (substance).

Heat resistance: 150°C (dry heat) at elevated temperatures discoloration may occur.
50°C (immersion or wet heat).

Coverage

Theoretical: 6.7 m²/l at 150 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 intact coatings to roughen the surface slightly. The surface must be clean and dry during application.

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Concrete and masonry: New concrete or masonry should dry and cure for at least 30 days before applying the coating system.

Remove laitance, loose and unsound concrete or deteriorated coatings preferably by abrasive blasting and repair surface defects with RUST-OLEUM Concrete Repair Mortar 5403 or Epoxy Putty 5412. Very dense and smooth concrete should be abrasive blasted or primed with RUST-OLEUM Super Adhesive 3333.

Steel: Remove loose rust, rust scale and deteriorated coatings by abrasive blasting to Sa 2½ (ISO 8501-1 : 1988), blast profile max. 100 µm.

For immersion purposes, prepare to Sa 3 (ISO 8501-01 : 1988), blast profile max. 75 µm.

DIRECTION FOR USE

These products are supplied in premeasured 'units' consisting of one can of pigmented base-material and one can of activator (5501). Stir individual components thoroughly before mixing them together. Add activator to base material and mix thoroughly with a low speed mixer.

Practical application times for a 4 ltr. mix:

<u>Material temperature</u>	<u>Time</u>	<u>Pot-life (incl. induction)</u>
20°	15 minutes	60 minutes
15°	30 minutes	90 minutes
10°	1 hours	2 ½ hours

APPLICATION & THINNING

Brush: Thinning not recommended.
Use natural bristles, longhair brushes.

Roller: Thinning not recommended
Use medium nap, 12 mm, perlon or polyester rollers.
For textured surfaces use long nap 14-18 mm rollers.

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

APPLICATION CONDITIONS

Temperature of material between 10 and 20°C, air and substrate between 10 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: 300 µm dry, equals 300 µm wet. Before using in direct contact with food the cured 5500 coatings shall be washed with a 2% acetic acid or citric acid solution, followed by flushing with fresh water. In time the product can show some yellowing. Apply the coating in strokes in one direction; do not use a cross-lap technique. Do not try to brush out the coating; lay it on thickly.

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.