

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 many food products, 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.
 RUST-OLEUM 5500 System is approved for direct food contact in various European countries.
 RUST-OLEUM 5500 System is classified Class 1 Surface Spread of Flame according BS 476; part 7 : 1987.

TECHNICAL DATA

Finish: 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

Drying times:	at 20°C/50% RH	at 10°C/60% RH	at 30°C/50% RH
To touch:	24 hours	36 hours	16 hours
To recoat:	after 24 hours	after 36 hours	after 16 hours
	within 72 hours	within 96 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
 Heat resistance: 50°C (immersion or wet heat)

COVERAGE

Theoretical: 6.7 m²/l at 150 µm dry
 Practical coverage depends on many factors such as porosity and rugosity of the substrate and material losses during application.

SURFACE

Remove grease, oil and all other surface contaminations by alkaline or high pressure PREPARATION (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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SURFACE
PREPARATION
(continued)

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.

DIRECTIONS

These products are supplied in premeasured 'units' consisting of one can of pigmented FOR USE basematerial 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:

Material temperature	Induction time	Pot-life (incl. induction)
20°C	15 minutes	60 minutes
15°C	30 minutes	90 minutes
10°C	1 hour	2½ hours

THINNING AND
APPLICATION

Brush: thinning not recommended
Use natural bristles, long hair brushes.

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

Clean-up: 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.

SHELF-LIFE /
CONDITIONS

5 years from date of production in unopened cans, if stored in dry, well ventilated areas, STORAGE not in direct sunlight at temperatures between 5° and 35° C.

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