



TECHNICAL SPECIFICATIONS GUIDELINE

B95SL SELF-LEVELLING FLEXIBLE EPOXY FOR FLOORS

Flexible self-levelling epoxy coating for all kinds of floors

CHARACTERISTICS

- High film build up to 2 mm
- Extremely durable
- Flexible film, cracking, shock and impact resistant
- Solvent-free, low odour
- Highly tolerant, multisurface
- Tintable to topcoat's approaching color
- Recoatable by Rust-Oleum PU topcoat

ACCEPTABLE SUBSTRATES

CONCRETE

Surface condition

New concrete must dry and cure for 30 days as a minimum prior application of the coating system. In compliance with usual standard, mass humidity should not exceed 4%. This will be checked by use of a humidity tester, or with a taped plastic sheet under which no formation of condensation should be observed overnight. Surface must be clean and dry prior and during application.

TILES

Surface condition

Tiles should be well-adhered to the substrate, which will be checked using a rubber mallet. Tiled floors should have a proper evaporation margin to prevent moisture capillary rising. Surface must be clean and dry prior and during application.

STEEL

Surface condition

Steel substrates must be properly supported to avoid warping, which could cause the coating to work and lead to cleavage.

A: Steel substrate extensively covered with adhered mill scale but with few or no rust at all.

B: Steel substrate that has started to rust and whose mill scale has started to delaminate.

C: Steel substrate from which mill scale has disappeared under action of rust, or that can be removed by scrapping, but showing some rust cankers visible by naked eye.

D: Steel substrate from which mill scale has disappeared under action of rust, or that can be removed by scrapping, but showing a lot of rust cankers visible by naked eye.

BITUMEN

Surface condition

Bituminous surfaces should be aged of at least 1 year and sufficiently oxidized so that oily nature typical of bituminous compounds can be taken away.

Surfaces should have not been polluted by mineral oils or other contaminants likely to rise up by lifting prior to application of any coating system.

PLASTICS

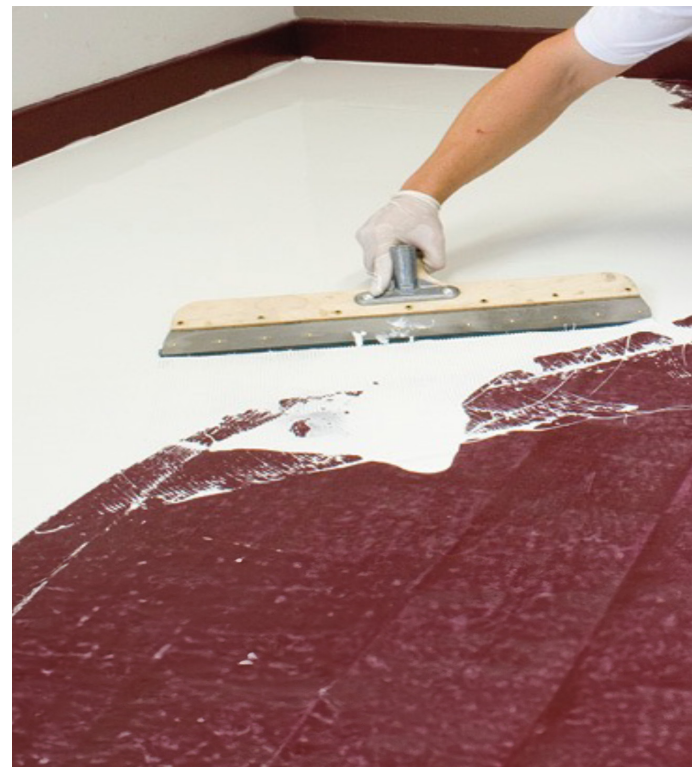
Surface condition

Plastic coatings such like flexible PVC, linoleums in the form of tiles or rollers, should be adherent to their supporting structure.

OLD COATINGS

Surface condition

Old paints and coatings should be perfectly adherent. In case of doubt, carry out a test on a small control-surface. Compatibles glossy coatings will be sanded mechanically.



SURFACE PREPARATION

GENERAL

Remove any dust, debris etc ; degrease and eliminate any contamination by alkaline cleaning with Cleaner-Degreaser RUST-OLEUM ND14 or high pressure cleaning combines with appropriate detergent, followed by thorough rinsing and full drying. In case of presence of mould (moss, lichens etc), decontaminate concerned surfaces with AMW Concentrate, followed by thorough rinsing and full drying. For severely contaminated areas, it is recommended to double the fungicidal treatment.

CONCRETE

Very dense, smooth, non-absorbing, power-floated concretes, will be etched by dustfree fine abrasive blasting, or with etching acid solution RUST-OLEUM SURFA-ETCH 108, followed by thorough rinsing, if a mechanical preparation is not possible. Laitance layers, concrete curing compounds will be eliminated by abrasive blasting.

On old concrete, remove laitance, old coatings in poor conditions, curing compounds, any loose or doubtful parts of concrete by abrasive blasting or grinding.

TILE

See General.

STEEL

See General.

Remove rust, rust scales, mill scale and old paints in bad condition, either manually or mechanically, according to the surface* :

Grades A and B : abrasive blasting SA 2 ½ (ISO 8501-01), max. rugosity 50 µm.

Grades C and D : pitting, grinding or scrapping-wire brushing to degree of care St 2/3 (ISO 8501-01), abrasive blasting SA 2 ½ (ISO 8501-01), max. rugosity 50 µm.

** Large surfaces will be preferably treated by abrasive blasting.*

BITUMEN

See General.

PLASTICS

See General.

In order to complete degreasing preparation with ND14, it will be possible to proceed to a wiping with Rust-Oleum Thinner 160, ensuring good ventilation of the premises and respect of individuals protection procedures.

RECOMMENDED WORKING PROCEDURES

PRECAUTIONS

During application and first phase of drying (± 24 hours), a high humidity and/or condensation can cause formation of a wet film, which results in alteration of the intercoat adhesion, and that can only be removed in a mechanical way (abrading).

Although Flexible Epoxy system B95SL is solvent-free, it is recommended, during its application, to store food or food products in a separate room. Mobile equipment will be moved away from the area of paintworks execution.

PREPARATION

To prevent water infiltration, most frequently at transition areas - entrances, door steps, gutters, drainage shafts etc – it is recommended to cut a chase of minimum 2 mm depth with a grinder, in order to allow anchorage of the coating system.

REPAIRS

Concrete :

Surface imperfections, holes, cracks etc in the concrete will be repaired with appropriate RUST-OLEUM repair products: Epoxyshield Small Cracks Repair 203010, epoxy mortars 5180 or 5190 following depth of repair to be carried out. Active cracks will be filled with a flexible mortar made of B95SL and quartz, ratio 1 for 4.

Bitumen :

Surface imperfections, holes, cracks etc in the bituminous substrate will be repaired according to their importance, either with a mix of Asphalt Restorer 5478 and quartz, ratio 1 :5, either with Cold Bitumen Repair Compound Rust-Oleum 5410.

PRIMERS

Very porous mineral substrates (water drop test : absorption in less than 2 minutes) will receive a coat of epoxy impregnation primer RUST-OLEUM 5401, or 5421 for faster recoating.

Very smooth and non-absorbing substrates such like tile or power-floated

concrete (water drop test : no absorption after 4 minutes) will receive a coat of adhesion primer RUST-OLEUM 3333, or 3366 for faster recoating, in case a mechanical preparation would be impossible. This alternative will however not be an option in case of severe mechanical challenges.

Concrete with a humidity percentage between 5 and 10% will receive a coat of epoxy impregnation primer RUST-OLEUM 5401 prior application of Flexible Self-levelling Epoxy B95SL.

Concrete with a humidity percentage between 11 and 20% will receive a coat of Damp Surface epoxy primer RUST-OLEUM 5130 DSP prior application of Self-levelling Flexible Epoxy B95.

Manually prepared rusted steels (St 2/3) will receive Epoxy High Performance Rust Primer 9169. Blasted surfaces will receive Heavy Duty High Performance Primers 9170/9180.

APPLICATION CONDITIONS

Temperature of air, substrate and product should be between 10 and 35°C, and relative humidity below 85%. Substrate temperature will be 3°C superior to dew point.

Product mixing: mix base material with a slow speed electric mixing machine, maximum 300 rounds/minutes, until homogeneous result is obtained. Add activator to the base : mix well until uniform appearance is reached, scrapping product from sides and bottom of the can, then pour into base can and mix again the two components together until a perfectly homogeneous product is obtained. In case of use of an outer container of a sufficient volume, the base material will be first pour in this container, scrapping product from sides and bottom of the can.

Consult technical data sheets for details on drying times, induction times, pot-life, dilution and recommended application methods. Consult safety data sheets for any information related to safety during use of products.

BACK TO SERVICE (FLOORS)

Depending on temperature, most of epoxy coatings will be hard after 24h and pedestrian traffic will be possible. However the coating remains vulnerable to the action of humidity, detergents and chemicals, until full hardness is reached. It is therefore necessary to take precautions on the coating system as a consequence for one week. During application and drying, solvent-based coatings require good ventilation ; in closed spaces, a forced ventilation is required to avoid solvent retention in the paint film. Best results are obtained when product is applied at an average temperature of 20°C (air, substrate), and when relative humidity can be maintained below 70%. To the extent that hardening of product is a chemical reaction between its two components, temperature plays an important role ; full hardness is reached after about 8 days et 20°C.

SURFACE MAINTENANCE

A RUST-OLEUM B95 Self-levelling Flexible Epoxy system, recoated by a Rust-O-Thane 9200 or 9600 topcoat, can be maintained by cleaning with a neutral detergent or alkaline detergent diluted with water. For floors, 2903 Painted Floor Cleaner is ideal. A worn coat can be easily restored by adequate surface preparation and application of a new coat of product.

SYSTEMS OVERVIEW

FLOOR SYSTEMS								
SUBSTRATES	CONCRETE		TILE		STEEL		BITUME (1)	
	Aggressive exposure	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :	System :
Primer	5401	100 µm	3333	20 µm	B95SL (1)	500 µm	B95SL	500 µm
1st coat	B95SL	500 µm	B95SL	500 µm	9200*	60 µm	9200*	60 µm
2nd coat	9200*	60 µm	9200*	60 µm	-		-	
Total film thickness	540 µm		580 µm		560 µm		560 µm	
Very aggressive exposure	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :
Primer	5401	100 µm	5401 ²	100 µm	9170/9180	75 µm	B95SL	2000 µm
1st coat	B95SL	2000 µm	B95SL	2000 µm	B95SL	2000 µm	9600	40 µm
2nd coat	9600	40 µm	9600	40 µm	9600	40 µm	9600	40 µm
Total film thickness	2140 µm		2140 µm		2115 µm		2080 µm	
Options and remarks :								
(1) On manually prepared very rusted surfaces, Rust-Oleum Epoxy Rust Primer 9169 will be applied first.								
(2) In aggressive atmosphere, mechanical preparation (abrading) is recommended. In this case, Rust-Oleum Impregnation Epoxy Primer 5401 will be applied.								
<i>* In case a superior resistance to chemical agents is necessary, prefer RUST-OLEUM polyurethane topcoat 9600.</i>								
In case a bright or dark topcoat color is chosen, application of a protective coat of varnish 9211, 4900 Polycot 2K on 9200 topcoat, and 9610 on 9600 topcoat is mandatory.								
To make the surface slip preventive, it is possible to add – by mixing or broadcasting - RUST-OLEUM additive NON SKID 200, 300 or 500 according to desired rugosity.								

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Available colours and pack sizes: See the relevant product page at www.rust-oleum.eu for actual available colours and pack sizes.

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