



## TECHNICAL SPECIFICATIONS GUIDELINE

### WATER-BASED EPOXY PEGAKOTE

high durability water-based epoxy system

#### CHARACTERISTICS

- No solvent
- Virtually no odour
- High resistance to abrasion and hot tires
- Excellent flow at application
- Easy to clean satin finish
- Tintable to any color

#### 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.

##### OLD COATINGS

###### *Surface condition*

Old paints and coatings should be perfectly adherent and compatible with a water-based epoxy system. 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.

### **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.

## **RECOMMENDED WORKING PROCEDURES**

### **PRECAUTIONS**

During application and first phase of drying ( $\pm$  12 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 Rust-Oleum water-based epoxy Pegakote system 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.

### **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 Pegakote system.

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 Pegakote system.

## **APPLICATION CONDITIONS**

Temperature of air, substrate and product should be between 8 and 35°C, and relative humidity below 80%. 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, coatings require good ventilation, particularly in closed spaces (extraction). 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 5 days and 20°C

## **SURFACE MAINTENANCE**

A RUST-OLEUM PEGAKOTE EPOXY system 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. On metal, in case of rust reformation, it is advised to not postpone repair, to prevent any growth.

**SYSTEMS OVERVIEW**

FLOORS & WALLS SYSTEMS				
SUBSTRATE	CONCRETE		TILE	
	<b>Moderately aggressive exposure</b>	System :	D.F.S. :	System :
Primer	5401WB(1)	30 µm	3333	20 µm
1st coat	PEGAKOTE	75 µm	PEGAKOTE	80 µm
2nd coat	PEGAKOTE	75 µm	-	
Total film thickness	150 µm		100 µm	
<b>Aggressive exposure</b>	System :	D.F.S. :	System :	D.F.S. :
Primer	5401WB	40 µm	3333	20 µm
1st coat	PEGAKOTE	80 µm	PEGAKOTE	80 µm
2nd coat	PEGAKOTE	80 µm	PEGAKOTE	80 µm
Total film thickness	200 µm		180 µm	
(1) On very porous substrates only.				
<p><b>Options and remarks:</b>                      If a superior resistance to chemicals, abrasion and/or UV is required, apply an additional coat of polyurethane topcoat RUST-OLEUM 9600 or 9200. In case a bright or dark topcoat color is chosen, application of a protective coat of varnish 9211 ou 4900 Polycoat 2K is mandatory on floors. 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.</p>				

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**Available colours and pack sizes:** See the relevant product page at [www.rust-oleum.eu](http://www.rust-oleum.eu) for actual available colours and pack sizes.

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