

ADINGKOLOR RF

*Final coating for concrete and asphalt substrates, based on synthetic resin and solvents
In compliance with EN 1504-2:2004 / 5.1(C)*

FIELD OF APPLICATION

Adingkolor RF is decorative and protective final floor and wall coating for concrete, mortar or asphalt surfaces. It's used for weather exposed constructions and mechanically exposed constructions. It's recommended for flooring in warehouses, garages, unprofessional sport fields, medical centres, industry buildings, including food industry. Also it fits perfect as final facade coating applied on cement mortar surfaces, such as facade base line coating. Also Adingkolor RF is used in the pedestrian coating system together with epoxy primers from Ading product program.

PROPERTIES

- excellent adhesion to the substrate;
- closes the structure of the top layer substrate;
- resistant to salts, petroleum and petroleum products;
- resistant to weather exposure;
- waterproof;
- resistant to abrasion, exposed to normal industrial exploitation;
- UV stable;
- available in number of shades;
- simple and fast application;
- simple maintenance.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	colored coating
Bulk density	EN ISO 2811-1	1,55-1,65g/cm ³
Bond strength by pull-off test/ adhesion	EN 1542	≥ 2,0MPa
Water absorption	EN 1062-3	w<0,1kg/m ² h ^{1/2}
Abrasion resistance	EN ISO 5470-1	<3000mg
Impact resistance	EN ISO 6272-1	class I ≥ 4Nm
Period between two layers, on 20°C	-	3-4h
Dry period, on 20°C	-	40-45min
Substrate and air temperature at application	-	5-35°C
Mechanical use for light and heavy transport, on 20°C	-	3 days after the application

METHOD STATEMENT

SUBSTRATE PREPARATION

The substrate must be sound, dry, cleaned of dirt, dust and grease, free of condensation, with max moisture up to 7%. The final layer of the substrate must have open structure. The substrate temperature, ambient temperature and the product temperature, ready for application must be between +5°C and +35°C. When this temperature limits are not considered, the applied layer could appear bubbles.

Asphalt substrate

Asphalt substrate must be sound, dry, cleaned and free of dust. Clean the dust of the substrate, using dry method, with compressed air.

New concrete substrate

Concrete must be cured at least 28 days, with minimum compressive strength 25MPa. Cement slurry, mortar, stains of paint and oil should be removed of the substrate. Finally, clean the dust of the substrate using industrial vacuum cleaner.

Old concrete substrate

In order to achieve an excellent adhesion to the substrate, it must be sound and clean. The cement slurry should be removed mechanically. Penetrated grease and dirt into the substrate should be removed using detergents or special agents. All cracks and damages on the substrate should be repaired, using suitable materials. Finally, clean the dust of the substrate using industrial vacuum cleaner.

Old coating substrate

Adingcolor RF can be applied on substrates with existing coating, only when the coating, used before is solvent based, firm and stable. Before the application of the new coating, the adhesion between the existing coating and the substrate must be tested when it is suitable base for the new layer. When this test doesn't pass, the old paint layers must be removed mechanically. When the adhesion between the existing layer and the substrate is good, it's recommended to treat the final paint layer, using sandpaper. Clean the surface of dust, using dry method. Then, apply Adingcolor RF on testing fields, to prove the contact of the existing layers and the new coating. The application of the material to the entire surface is required by the adhesion results, obtained of the testing fields.

Note:

Water based paint must be completely removed of the surface, before the application of Adingcolor RF.

Porous substrate

In case when the substrate is porous, it is recommended to apply epoxy primer Adingpoks 1P or Adingpoks 1PV on the substrate. In this way, the permeable substrate will be close packed and strengthened, thus reducing the risk of imbalanced aesthetic effect.

Nonporous substrate

Applying Adingcolor RF on a non-porous structure or surface treated to a "black gloss" is not permitted. It is necessary for the substrate to be pre-machined (scraped) in order to open the surface structure of the substrate, and then to apply Adingcolor RF.

APPLICATION

Apply Adingcolor RF using brush, roller or airless pump in 2 to 3 layers, with thickness of one dry layer between 150÷200 µ. Before the application, the quantity of the material required for the first layer should be diluted with maximum 8% Solvent P. The diluted paint should be mixed until it homogenize. The material for the second and the third layer should be diluted with max. 5% Solvent P. Period between layers, on 20°C is 3-4 hours. Treated surfaces should be protected of wind, rain, ice and dust 24 hours after the application.

Note:

Water, that contains defrosting salts, can low the gloss of the final coating, or can result with not uniform colouring of the surfaces treated with Adingcolor RF. These side effects don't affect the coating as protective layer.

Application with airless pump

- pressure (150-200) bar
- application angle: perpendicular to the substrate line
- distance from the substrate 20-40 cm

CONSUMPTION

- for two layers – 0.5-0.6 kg/m²
- for three layers – 0.65-0.8 kg/m²

CLEANING

Clean tools and equipment right after the application using Solvent P.

PACKAGING

Adingkolor RF- metal cans – 4 kg and 25 kg
Solvent P- cans - 0.9 kg and 4 kg

STORAGE


In the original packing at temperature between 5-35°C. Shelf life: 12 months.

STANDARD COLORS

RAL1018; RAL1023; RAL3016; RAL3020; RAL5012; RAL6010; RAL7032; RAL7035; RAL7044; RAL7045;
RAL9003; RAL9004.

Note: The remaining RAL colors are available for orders over 90kg.

CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 17 GKDH0XX/8 EN 1504-2:2004 ADINGKOLOR RF Coating for surface protection and improved physical resistance of concrete	
Adhesion strength by pull-off test	≥ 2,0 N/mm²
Capillary absorption and permeability to water	w < 0,1 kg/m²·h^{0.5}
Abrasion resistance	< 3000 mg
Impact resistance	Class I ≥ 4 Nm After loading, no cracks, no delamination
Reaction to fire	Class F
Dangerous substances	No performance determined

Health hazards: Avoid contact of the product with skin and eyes, as well as direct inhalation when you mix the components. In case of accidental contact, the product should be removed immediately with dry towel or mildly wetted towel with Solvent P. Then, wash the spot with pure water and soap. If the material has been splashed into eyes, immediately rinse it with pure water and call for medical help. Ventilate the room where you use resins and solvents.

Fire: Adingcolor RF and Solvent P contain flammable solvents. Do not use this products near fire or while smoking.

Cleaning and disposal: Loose residues of Adingcolor RF are cleaned with Solvent P. The old and used packing should be discarded in accordance with the local relevant regulations. Additional information is provided in the Product Safety Data Sheet.