

ADINGMARKER P

Synthetic resin and solvent based paint for marking asphalt and concrete surfaces

FIELD OF APPLICATION

Adingmarker P is used for marking roads and traffic signalisation. Adingmarker P is applied as part of a system for implementing pedestrian lanes on bridges in combination with the epoxy resin-based primer from the Ading product program.

PROPERTIES

- good adhesion to substrate;
- high whiteness and hidden power;
- high durability;
- resistance to dilute acids and bases, salt solutions and mineral oils;
- resistance to atmospheric influences;
- weatherproof;
- abrasion resistant;
- UV stable;
- available in several RAL colours;
- easy and quick to apply;
- easy to maintain.

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	-	coloured coating
Density	EN ISO 2811-1	1.7-1.8 g/cm ³
Viscosity before dilution	EN ISO 2431	60s-70s
Adhesion to substrate	EN 1542	≥ 2.0MPa
Coating elasticity	EN 1436	No cracks or detachment
Wear-and-tear index	MKC.3.C2.240	T _{A,M} =(500-550)mg
Slip resistance	EN 1436	57 SRT units
Ice and salt resistance	EN 1436	No cracks or detachment
Dry-to-touch time at temperature of 20°C	EN ISO 9117	15min
Hardening time at temperature of 20°C	EN ISO 9117	20-25min
Time interval between two layers at temperature of 20°C	-	120-180min
Substrate and air temperature during application	-	5-35°C

METHOD STATEMENT

SUBSTRATE PREPARATION

The substrate should be strong, dry, clean, grease-free and dust-free, without presence of condensate and with maximum humidity of 7%. The temperature of the substrate, of the air and of Adingmarker P ready to be applied, should be between +5°C and +35°C at relative air humidity of up to 70%. If these limits are not observed, there is a possibility for occurrence of bubbles in the applied coating.

Asphalt substrate

The asphalt on which the coating is to be applied should be sound, dry, clean and dust-free. Dusting of the substrate should be carried out within a dry procedure by applying air under pressure.

New concrete substrate

The concrete substrate should be sound, dry, clean, grease-free and dust-free. Laitance and residues of mortar, paint and oil should be removed mechanically or by using chemical agents. In the end, the substrate should be dusted by using an industrial vacuum cleaner.

Old concrete substrate

A sound and clean substrate is the main pre-condition for achieving excellent adhesion properties. Similar to the new concrete substrate, removal of the laitance should be carried out mechanically. The grease and dirt penetrated in the substrate should be removed with detergents or special preparations for that purpose. If there is any damage to the substrate, it should be repaired by using the appropriate materials for rehabilitation. In the end, the substrate should be dusted by using an industrial vacuum cleaner.

Substrate with an existing coating

Adingmarker P can be applied on substrates which already have a coating, provided that the existing coating is strong enough and stable in contact with solvents. In these substrates, prior to the application of the new coating, it is mandatory to make a check on the adhesion properties between the existing coating and the substrate in order to establish whether these coats can be an appropriate substrate for the new coating. If the adhesion is low, it is mandatory that the old coats of paint be mechanically removed. If the adhesion of the existing paint coats to the substrate is good, it is recommended to treat the surface of these coats with sandpaper and to remove the dust by applying a dry procedure, and then to prepare test areas for the new coat of paint to be applied.

Note:

The existing water-based coating, even in case when it is sound and has a good adhesion to the substrate, must be entirely removed prior to the application of Adingmarker P.

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.

Non-porous substrate

Applying Adingmarker P 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 Adingmarker P.

APPLICATION

Adingmarker P should be applied by using a brush or a roller, or mechanically by spraying with an airless pump with dry film thickness to 600µ. For the application of the first layer, the material should be diluted with 3-5% of Solvent P or other nitro base solvent, after which the compound should be slowly mixed until a completely uniform mixture is obtained. When diluting the material, attention should be paid for the quantity that is going to be diluted to match the necessary quantity for application of one layer on the surface intended to be covered. The second and the third layer should be prepared with a dilution of up to 3%. The time interval between the rounds of application of the different layers at temperature of 20°C should be 2-3 hours. The treated surfaces should be protected from strong draught, rain, ice and dust for a period of 24 hours following the application. The temperature of the substrate at the moment of application should be above 5°C.

Note:

Water containing de-icing salts may cause gloss loss or mild colour variation on the surfaces treated with Adingmarker P; however, this does not have a harmful effect on the protective properties of the coating.

Mechanical application by using an airless pipe:

- spraying angle: perpendicular to the substrate and at a distance of 20-40 cm

CONSUMPTION

for one layer by spraying with an airless pump: 0.5 kg/m²
for two layers with roller : 0.5-0.6 kg/m²

CLEANING

The tools and equipment should be cleaned with Solvent-P immediately after use.

PACKAGING

Adingmarker P – in metal containers of 5 kg and 30 kg
Solvent P – in metal containers of 0.9 kg and 4 kg

STORAGE

In a dry area, in original, closed packaging, at temperature between 5°C and 30°C, protected from exposure to direct sunlight, away from sources of heat/sparks.
Shelf life: 9 months.

STANDARD COLOURS

RAL1018; RAL3020; RAL5012; RAL9003

Note: The remaining RAL colours are available upon request for orders of at least 90 kg.

Health hazards: Avoid contact of the product with skin and eyes, as well as direct inhalation. In case of accidental contact, immediately remove the product by using a dry towel or a towel slightly soaked in Solvent P (Rastvorovac P), and then wash the area thoroughly with clean water and soap. If the material splashes into the eyes, rinse them immediately with clean water and seek medical advice. Ensure ventilation in the area where resins and solvents are handled.

Fire: The product is flammable.

Cleaning and disposal: Loose residues of Adingmarker P should be cleaned with Solvent P (Rastvorovac P). Old and used packaging should be disposed of in accordance with the local rules and regulations for that type of waste.

We recommend that the method of application and the necessary quantities be adjusted to the conditions on the site, as well as mandatory use of appropriate equipment. Additional information is provided in the Product Safety Data Sheet.