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D2 Airfield Protect WP 3000

Satin-finish, colored 2-component epoxy resin emulsion sealant for thermosetting coatings type D2 according to the construction guideline for air traffic facilities (BFR 9021)

PRODUCT DESCRIPTION	D2 Airfield Protect WP 3000 is a two-component, water-emulsified, colored epoxy resin sealant for application on thermosetting asphalt surfaces of type D2 according to the construction guidelines for air traffic control facilities (BFR 9021). The colored sealant ensures a uniform color and allows for matching to various concrete and asphalt colors. The product contains no free bisphenol A or alkylphenols. The product is pleasant and environmentally friendly to use. It can be easily applied with a roller or a suitable airless sprayer and is characterized by high opacity. Curing occurs through drying and chemical cross-linking to form a robust film with very good adhesion. D2 Airfield Protect WP 3000 improves the integration of quartz sands and other broadcast materials into the surface structure, thereby increasing the mechanical strength of the systems. The broadcast sands are used for broadcasting D2 Airfield. Protect EP 2000 must be dry; otherwise, dry it using suitable methods. The sealant forms a tough, abrasion-resistant film that offers good resistance to mechanical stress. The product exhibits good chemical resistance to aqueous solutions, diluted acids and alkalis, as well as to motor oil, heating oil, kerosene, and formate-based de-icing agents. However, prolonged exposure to certain chemicals may lead to superficial staining.
SCOPE	- As a colored topcoat for D2 coverings on air traffic surfaces according to BFR 9021.
PRODUCT FEATURES	- low-emission formulation - Total Solid according to GISCODE - low odor - uniform surface - environmentally friendly - very high liability - simple application high coverage

EXAMS	Test report (system test): Testing according to the "Construction Guidelines for Air Traffic Facilities (BFR 9021) (Edition 1999) – Surface Protection Layers of Airfield Surfaces" (Requirement: D2 coating)
PANEL STRUCTURE	Substrate preparation by milling or shot blasting and thorough vacuum. Applying the D2 Airfield primer Apply Protect EP 1000 using a squeegee, rubber squeegee, spatula, or nylon roller. Consumption is approximately 0.35 to 0.45 kg/m². For a uniformly smooth surface, roll over again with a nylon roller. Optional scratch coat application for increased surface roughness to create a flat, non-porous subsoil, with D2 Airfield Protect EP 1000 and mixed sand 2/1 in a mixing ratio of 1 : 0.8 parts by weight, Consumption of mixture approx. 0.8 to 1.2 kg/m². Complete sanding of the primer or optional scratch coat with Quartz sand, grain size 0.3/0.8 mm, consumption at least 4.5 kg/m2. Applying a base coat of D2 Airfield Protect EP 2000 with the notched trowel (tooth strip S6 or Pajarito TKB-2), consumption 1.0 - 1.2 kg/m². Optional: Add 10 to 15% quartz sand 0.3/0.8 mm to D2 Airfield Protect EP 2000 and application over the supporting aggregate, consumption 1.1 - 1.3 kg/m². Completely sand with quartz sand, grain size 0.7/1.2 mm, consumption at least 5 kg/m2. Sealing with D2 Airfield Protect WP 3000 applied using a nylon roller in a crosswise pattern or a suitable airless sprayer; consumption: 0.25 to 0.3 kg/m² or, for colorless topcoat sealing, alternatively D2 Airfield Protect WP 3001
SUBGROUND	The substrate to be coated must be level, dry, dust-free, sufficiently strong in both tensile and compressive strength, and free of weakly adhering components and flaking. Substances that impair adhesion, such as grease, oil, and paint residues, must be removed beforehand using appropriate methods. Suitable substrates for coating are concrete C30/37 (exposure class XD1) or C35/45 (exposure class XD3). The substrates must possess sufficient strength for the intended use. The substrates to be coated must be prepared mechanically, by milling, or Shot blasting is required. The absorbency must be checked. The surface strength must be at least 2.0 N/mm². The moisture content of concrete must not exceed 4.5 CM-%.

MIX	In combination containers, the factory-weighed material is present in the exact mixing ratio in one working pack. The container of component B has sufficient volume to hold the entire quantity. Empty component A completely into the hardener container B. Mixing is carried out mechanically with a slow-running mixer (200 to 400 rpm) and should take 2 to 3 minutes until a homogeneous, streak-free mixture is obtained. If diluting with water, components A and B must first be completely mixed. Only then add the water and homogenize again completely. To avoid mixing errors, it is recommended to always transfer the resin/hardener mixture into a clean container and briefly mix again ("transferring"). In case of partial withdrawal, the Stir the components and weigh them out in the mixing ratio. The processing time must not exceed 70 minutes at 20 °C (see table). "Processing time"). Caution: Pot life is not identifiable!
PROCESSING	As with all reactive resins, processing should begin immediately after mixing. Application is done with a paint roller or an airless sprayer. For example, the Airlessco HS9950 unit from b&m GmbH with HDP 500 and nozzle 523 (pressure 230 bar) is suitable. The temperature of the soil and air must not fall below 15 °C, and the relative humidity must not exceed 75%. The recommended climatic conditions must be maintained during curing and drying. The temperature difference between the soil and air temperature must be less than 3 °C to ensure proper curing. If a dew point occurs, regular drying cannot take place, and curing problems and staining will result. Exposure to water and chemicals must be avoided during the first 7 days. The specified curing times refer to 20 °C; at lower temperatures, the processing and curing times will be longer, and at higher temperatures, they will be shortened. If the processing conditions are not met, deviations in the described technical properties may occur in the final product. Special notes: Colored products should generally be used from the same batch on a single surface, as slight color variations between different batches cannot be ruled out due to raw material differences. The batch number is indicated on the container labels. For certain colors, especially white, yellow, and when applying orange or pastel light colors, it is essential to adhere to the recommended layer thicknesses to ensure adequate coverage. The sealant must always be applied in the same color as the underlying coating. For other color combinations, consult a specialist. Under certain light and weather conditions, and with prolonged and intensive use, color changes, loss of gloss, or yellowing symptoms may appear.

CLEANING	Use water to clean fresh soiling and to clean tools immediately after use. Hardened material can only be removed mechanically.
STORAGE	Store in a dry, frost-free place. Ideal storage temperature: 10 to 20 °C. Bring to the appropriate processing temperature before use. Tightly reseal opened containers and use as soon as possible.
SPECIAL INSTRUCTIONS/PROTECTIVE MEASURES	This product is subject to the Hazardous Substances Ordinance, the Industrial Safety Ordinance, and the transport regulations for dangerous goods. The required information is contained in the DIN safety data sheet. Observe the labeling instructions on the container label! GISCODE: RE20 VOC content labeling: (EU Regulation 2004/42) Limit value 140 g/l (2010,II,j/ wb): Product contains < 140 g/l VOC in its processed state.

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TECHNICAL DATA *

TECHNICAL SPECIFICATIONS	UNIT	VALUE
Viscosity - Component A+B	mPas	Approximately 1000
solids content	%.	> 63
Density - Component A+B	kg/l	Approximately 1.32
Abrasion (Taber Abraser)	mg	< 70
Flash point		Non-flammable
Gloss level		20 - 30 (85°)
Mixing ratio parts by weight	A : B = 1 : 5	
Mixing ratio, parts by volume	A : B = 1 : 4.15	
Processing time	15 °C : 80 min. 20 °C : 70 min. 30 °C : 40 min.	
Processing temperature	Minimum 15 °C (air and ground temperature)	
Curing time (walkability)	15 °C : 24 - 36 hrs. 20 °C : 18 - 24 hrs. 30 °C : 14 - 18 hrs.	
Hardening	2-3 days until mechanical stress resistance is reached at 20°C 7 days until chemical resistance at 20 °C	
Revarizability	After 18-24 hours, but no later than 48 hours, at 20 °C	
consumption	Topcoat: Approx. 0.25 - 0.3 kg/m²	
shade	from 10 kg approx. RAL 7030, approx. RAL 7032, approx. RAL 7035, approx. RAL 7040, For orders over 300 kg, other colors are available upon request!	
durability	12 months (original sealed) – Protect from frost!	

*These figures are guidelines only. They are not intended for creating specifications.

The data were obtained at +23°C and 50% relative humidity. Higher temperatures and/or higher relative humidity may shorten or lengthen these times. All technical data, dimensions, and information in this datasheet are based on laboratory tests. Actual measured data may differ in practice.

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