D2 Airfield Protect EP 2000

Ready-to-use 2-component epoxy resin broadcast layer for thermosetting coatings type D2 according to
Technical guidelines for the construction of air traffic facilities (BFR 9021)

PRODUCT DESCRIPTION	D2 Airfield Protect EP 2000 is a ready-to-use, pigmented Epoxy resin coating used as a broadcast layer for thermosetting pavements type D2 according to the construction guidelines for air traffic control facilities (BFR 9021). The product meets the specific requirements for mechanical strength and chemical resistance on air traffic control surfaces. The product contains no free bisphenol A and no alkylphenols. The coating is particularly suitable for incorporating broadcast materials such as natural quartz sand (grain size 0.7/1.2 mm) and other suitable broadcast materials. Its high strength ensures strong anchoring of the broadcast material, resulting in minimal wear, especially in shear zones. The broadcast sands must be dry before applying D2 Airfield Protect EP 2000. D2 Airfield Protect EP 2000 exhibits high chemical resistance. compared to kerosene, aviation gasoline, brake fluids, oils and De-icing fluids are specifically designed for the demands of air traffic control facilities. For special requirements regarding durability, please seek separate consultation.
SCOPE	- As a broadcast layer for the construction of a D2 surface (according to - BFR 9021). Slip-resistant coating of concrete surfaces on airport aprons and taxiways.
PRODUCT FEATURES	- ready for processing - fast-curing - fast editable - good interlayer adhesion - Total Solids according to GISCODE (testing method German construction - chemicals) very economical
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. Apply D2 Airfield Protect EP 1000 primer using a squeegee, rubber squeegee, spatula, or nylon roller. Consumption is approximately 0.35 to 0.45 kg/m². To achieve a uniformly closed surface, roll over it 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. Apply a base coat of D2 Airfield Protect EP 2000 using a notched trowel (S6 notched trowel or Pajarito TKB-2), consumption 1.0 - 1.2 kg/m². Optional: Add 10 to 15% quartz sand 0.3/0.8 mm to Aeropox EP 1282 and apply over the support aggregate (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 or D2 Airfield Protect WP 3001, see product information for the sealant.
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 must be prepared. The absorbency must be checked. Surface strength must be at least 2.0 N/mm². The moisture content of concrete must not exceed 4.5 CM-%.

MIX	For combination containers, the factory-weighed material is present in the correct mixing ratio in one working pack. The container of component A has sufficient volume to hold the entire quantity. Empty the hardener B completely into the resin container A. 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 achieved. To avoid mixing errors, it is recommended to always transfer the resin/hardener mixture into a clean container and briefly mix it again ("transferring").
PROCESSING	Processing takes place immediately after mixing; the resin is then... Spread the product over the area being treated and smooth it in an even layer using a trowel, smoothing spatula, rubber squeegee, or angled squeegee. Always overlap the layers to ensure even coverage. Monitor consumption. If necessary, redistribute with a roller. Apply subsequent layers within the recommended time frame. If the coating is not applied within the processing time window, the primer/scratch coat must be sanded. The surface must then be completely covered with 0.7/1.2 mm quartz sand. The temperature of the soil and air must not fall below 10 °C, and the relative humidity must not exceed 75%. The temperature difference between the soil and air temperature should be less than 3 °C to ensure proper curing. If dew occurs, regular curing cannot take place. Hardening problems and staining may occur. The stated curing times refer to 20 °C; at lower temperatures, processing and curing times will increase, while at higher temperatures, they will decrease. If the processing conditions are not met, deviations may occur. the described technical characteristics of the final product occur.
CLEANING	Use Cleaner G to remove fresh soiling and to clean tools immediately after use. Hardened material can only be removed mechanically.
STORAGE	Store in a dry, frost-free place if possible. Ideal storage temperature is 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	The 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. Labeling information on the Check the container label!

	GISCODE: RE90 VOC content labeling: (EU Regulation 2004/42) Limit value 500 g/l (2010,II,j/lb): Product contains < 500 g/l VOC in its processed state.

TECHNICAL DATA *

TECHNICAL SPECIFICATIONS	UNIT	VALUE
Viscosity - Component A+B	mPas	Approximately 1200
solids content	%.	> 99
Density - Component A+B	kg/l	Approximately 1.4
Tensile adhesion strength	N/mm²	> 2.0
Shore hardness D		87

Mixing ratio parts by weight	A : B = 100 : 47
Mixing ratio, parts by volume	A : B = 100 : 51
Processing time	10 °C : 45 min. 20 °C : 30 min. 30 °C : 15 min.
Processing temperature	Minimum 10 °C (air and ground temperature)
Curing time (walkability)	10 °C : 16 - 20 hrs. 20 °C : 12 - 15 hrs. 30 °C : 8 - 12 hrs.
Hardening	2-3 days until mechanical stress resistance is reached at 20°C 7 days until chemical resistance at 20 °C
consumption	Primer: 0.35 - 0.45 g/m² depending on the roughness of the substrate
durability	12 months (original sealed)

*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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