



DRI-FLOOR EP 1000

Solvent Free, Transparent, 2-Component Epoxy Resin of Low Viscosity

DRI-FLOOR EP 1000 is a 2-part, solvent free epoxy resin with very good adhesion onto mineral substrates. It may be used to prime substrates such as concrete substrates, cement screeds and epoxy mortars. It may be filled with mineral aggregates and produces high strength mortars.

FEATURES/BENEFITS

- ✓ Very good adhesion on mineral substrates
- ✓ Can be highly filled with mineral aggregates
- ✓ Produces high strength mortars with resistances to rolling and abrasive loadings
- ✓ High chemical resistance

APPLICATION AREAS

- ✓ Primer on mineral based substrates prior to application of solvent-free coatings and screeds
- ✓ Binding resin or epoxy resin scratch coats
- ✓ Bonding coat for epoxy resin screeds and mortars
- ✓ Production of light duty and heavy duty resin screed systems



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Product Data

Appearances / Colors	Transparent
Packaging	25kg set
Storage	12 months from date of production
Storage Condition	Stored at cool & dry conditions in original unopened packaging. Storage should not be at very low temperatures as this will affect product workability.

Technical Data

Origin	Epoxy	
Density	Approx. 1.10 kg/l (mixture)	
Viscosity	Approx. 500 – 600 mPas	
Mixing Ratio	3.5 : 1.5 (pbw)	
Resistance to Foot Traffic	1 day	
Pot Life	Approx. 15 minutes	
Full Mechanical & Chemical Resistance	7 days	
Compressive Strength	Resin : Aggregate Quartz Sand (0.2 – 0.7mm)	Strength (N/mm²)
	1 : 5	72
	1 : 8	77
	1 : 10	94
Tensile Strength	Resin : Aggregate Quartz Sand (0.2 – 0.7mm)	Strength (N/mm²)
	1 : 5	20
	1 : 8	20
	1 : 10	26

* Short-term moist/wet heat up to +80°C where exposure is only occasional (steam cleaning, etc.)

* No simultaneous chemical & mechanical exposure and only in combination with DRI-FLOOR EP systems as a broadcast system with approx. 3-4mm thickness.

Application conditions

Substrate Temperature	8 – 30 °C
Relative Humidity	Max 85%
Dew Point	Above dew point by 3°C
Cleaning Agent	Thinner No.3

❖ Curing time may vary and are subjected to ambient conditions.

SUBSTRATE

New concrete should be cured for at least 28 days and should have a pull-off strength $\geq 1.5 \text{ N/mm}^2$. Cement or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface. Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. Substrate must have sufficient gradient for surface water to run off easily without ponding water. *Substrate must not contain >6% moisture.*

MIXING

DRI-FLOOR EP 1000 consists of a base & a hardener component supplied in pre-batched packs. Before application, the base and hardener components are carefully mixed by means of slowly rotating electric drill with paddle. To complete the mixing, the resin is poured from one can to another and mixed again. Mineral aggregates are mixed with the binding resin by means of a forced action mixer. To ensure the correct mixing ratio & for ecological reasons, packs should be emptied thoroughly.

APPLICATION

Application of **DRI-FLOOR EP 1000** as a primer is normally by means of rolling or rubber squeegees. If fresh primer or scratch coat cannot be overcoated within 24 hours, it should be strewn with oven-dried quartz sand of grain size 0.1 – 0.3mm. All excess sand must be removed after hardening of primer. Coverage rates are dependent on texture, temperature and porosity of the substrate as well as product storage & workability temperatures. To determine this exactly, a sample area should be laid and coverages noted. Scratch coats and self levelling screeds made from **DRI-FLOOR EP 1000** mixture are applied by means of steel trowels, floats or rubber squeegees on top of the primed surface.

To obtain higher anti-skid scratch coats or self-levelling screeds, they have to be strewn immediately with oven-dried quartz sand.

Higher temperatures shorten while lower temperatures lengthen the pot life. The general rule of thumb is that a temperature change of 10°C either halves or doubles the pot life respectively.

LIMITATIONS

- ❖ Do not apply on substrates with rising moisture. Freshly applied coatings should be protected from damp, condensation and water for at least 24 hours.
- ❖ For external applications, always apply during falling ambient and substrate temperature. If applied during rising temperatures, pin holes may form due to the rising air.
- ❖ Avoid puddles on the surface with the primer.
- ❖ Ensure that the coating is thoroughly dry and the surface is without pinholes before applying any top coat.
- ❖ Incorrect assessment and treatment of cracks may lead to a reduced service life & reflective cracking.
- ❖ Under certain conditions, underfloor heating combined with high point loading may lead to imprint in the resin. If heating is required, do not use gas, oil, paraffin or other fossil fuel heaters that produce large quantities of CO₂ & H₂O vapour as it may adversely affect the finishing. For heating, use only electric powered warm air blower systems.
- ❖ The colour of **DRI-FLOOR EP 1000** may vary or yellow or chalk under UV.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.