



DRI-FLOOR EP 1550

High Performance Epoxy Resin Self-Levelling Compound

DRI-FLOOR EP 1550 is a 2-part, pigmented epoxy resin self-levelling compound that is free of nonylphenol. It is suitable to be used in industrial areas. It can be filled and strewn with oven-dried aggregates for higher layer thicknesses. The coating increases the floor's mechanical and chemical resistance.

FEATURES/BENEFITS

- ✓ Self-levelling
- ✓ Nonylphenol-free
- ✓ Pigmented epoxy resin
- ✓ High chemical & mechanical resistance
- ✓ May be filled with aggregates for higher thicknesses

APPLICATION AREAS

- ✓ Coating for warehouses, production facilities, workshops, etc.
- ✓ Coating for mineral based substrates in thickness of 1-6mm
- ✓ For use in industrial areas



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Product Data

Appearances / Colors	Pigmented
Packaging	5kg set & 20kg 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. 1.40 kg/l (mixture)
Viscosity	Approx. 1900 mPas
Mixing Ratio	4 : 1 (pbw)
Resistance to Foot Traffic	Approx. 12 hours
Pot Life	Approx. 45 minutes
Full Mechanical & Chemical Resistance	Approx. 12 hours
Pull-Off Strength (Adhesion)	On Concrete: > 1.5 N/mm ² On Metal: > 3.5 N/mm ²
Shore D Hardness	Approx. 100
Capillary Absorption & Permeability to Water	w < 0.01 kg/m ² .h ^{0.5}
Abrasion Resistance	80 mg (CS 10/1000/1000)
Chemical Resistance	Resistant to many chemicals. Please contact Dritech Chemicals Sdn. Bhd. for more information.

* 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
Consumption	As self-levelling compound: Approx. 1.6 kg/m ² per 1mm

❖ 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 >4% moisture, otherwise treatment with **DRI-FLOOR MT 1100** is necessary. Substrate must be primed with suitable primer before application of **DRI-FLOOR EP 1550**.

APPLICATION

Application of **DRI-FLOOR EP 1550** is done within 12 – 24 hours after application of scratch coat or primer, using a steel float, adjustable screeding tools or a rubber squeegee and de-aerated with a spiked roller.

For layers > 1mm thickness, it may be filled with oven-dried quartz sand (0.1 – 0.3 mm) in a mixing ratio of 1:0.5 p.b.w. After application, the freshly laid areas are de-aerated cross-wise with a spiked roller. To obtain higher surface friction finishes, the previously filled coating is immediately strewn in excess (approx.. 5 – 6 kg/m²) with oven dried quartz sand (0.2 – 0.7 mm or coarser).

After curing, the loose sand is removed and the top coat is applied. The top coat is applied cross-wise with a lamb skin roller.

LIMITATIONS

- ❖ Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition.
- ❖ 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.
- ❖ 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 1550** 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.