



DRI-FLOOR EP 1550

High performance epoxy resin self-levelling compound

2-part, pigmented epoxy resin self-levelling compound that is free of nonylphenol that is suitable to be used in industrial areas for a seamless, dust-proof floor with chemical & mechanical resistance.

FEATURES/BENEFITS

- Self-levelling
- Nonylphenol-free pigmented epoxy resin
- High chemical & mechanical resistance
- Dust-proof / anti-dust
- May be filled with aggregates for higher thicknesses and anti-slip finish

APPLICATION AREAS

- Warehouse
- Production facilities
- Workshops
- Mineral-based substrates
- Industrial areas
- Areas with anti-dust requirement
- Car parks and corridors

PRODUCT DATA

Appearances / Colors	Pigmented
Packaging	5kg and 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 it will affect product's workability.

TECHNICAL DATA

Origin	Epoxy
Density	Approx. 1.40 kg/L (mixture)
Viscosity	Approx. 1900 mPa.s
Mixing Ratio	4 : 1 (pbw)
Pot Life	Approx. 45 minutes
Resistance to Foot Traffic	Approx. 12 hours
Full Chemical & Mechanical Resistance	Approx. 12 hours
Adhesion Strength	On Concrete: > 1.5 N/mm ² On Metal: > 3.5 N/mm ²

Shore D Hardness	Approx. 100
Capillary Absorption & Permeability to Water	$W < 0.01 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
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 – only in combination with Dri-Floor EP systems as a broadcast system at ~3 – 4mm thickness.

* Pot life and curing time may vary and are subjected to ambient conditions.

APPLICATION CONDITIONS

Substrate temperature	8-30 Degree Celsius
Relative Air Humidity	Max. 85%
Consumption	As a self-levelling compound: Approx 1.40 – 1.50 kg/m ² per 1mm
Dew Point	Above dew point by 3°C

SUBSTRATE

New concrete should be cured for at least 28 days and should have a pull-off strength 1.5 N/mm². 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 the product.

APPLICATION

Application 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 >1 mm 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, 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 & substrate temperature. If applied during rising temperature, 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 a large amount of carbon dioxide and water vapour as it may adversely affect the finishing. For heating, use only electric powered warm air blower systems.
- The colour of the product may vary or yellow or chalk under UV. However, this does not affect the functional properties of the material.

HEALTH & SAFETY

For information & 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.