

# DRI-FLOOR EP 1080

## 2-Part Solvent-Free, Water Dispersed Epoxy Primer with Higher Moisture Tolerance

**DRI-FLOOR EP 1080** is a 2-part, solvent free, water dispersed epoxy resin that acts as a primer and adhesion promoter for subsequent flooring resins.

**DRI-FLOOR EP 1080** may be used to prime concrete, cementitious screeds, hardened concrete floors, existing epoxy floor coatings, epoxy mortar levelling layers, and so on. It is easy and fast to apply, odourless, and has excellent bond strength over its whole application temperature range.

### FEATURES/BENEFITS

- ✓ Easy & fast to apply
- ✓ Higher moisture tolerance
- ✓ Solvent free, water dispersed
- ✓ Odourless
- ✓ Excellent bond strength
- ✓ Environmental friendly

### APPLICATION AREAS

- ✓ Concrete
- ✓ Cementitious screeds
- ✓ Hardened concrete floors
- ✓ Existing epoxy floor coatings
- ✓ Epoxy mortar levelling layers



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#### Product Data

Appearances / Colors	Red
Packaging	20kg/set
Storage	12 months from date of production
Storage Condition	Dry conditions at temperatures between +20°C to +30°C. Protect from direct sunlight.

#### Technical Data

Origin	Water based epoxy								
Density	Approx. 1.40 kg/l (at +20°C)								
Solid Content	Approx. 56% (by volume)								
Pot life	<table border="1"> <thead> <tr> <th>Temperature</th><th>Time</th></tr> </thead> <tbody> <tr> <td>+ 10 °C</td><td>~ 180 min.</td></tr> <tr> <td>+ 20 °C</td><td>~ 90 min.</td></tr> <tr> <td>+ 30 °C</td><td>~ 45 min.</td></tr> </tbody> </table>	Temperature	Time	+ 10 °C	~ 180 min.	+ 20 °C	~ 90 min.	+ 30 °C	~ 45 min.
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+ 10 °C	~ 180 min.								
+ 20 °C	~ 90 min.								
+ 30 °C	~ 45 min.								

*Note: Expiry of potlife without visible change. (> 75% R.H.)*

Waiting Time/ Overcoating

Before applying Dri-Floor EP or Dri-Floor MT systems, allow:

Substrate Temperature	Min. Waiting Time	Max. Waiting Time
+ 10 °C	12 hours	72 hours
+ 20 °C	6 hours	48 hours
+ 30 °C	4 hours	24 hours

*At low temperatures and/or high humidity, curing time increases. Apply subsequent coats only to tack free primer.*

Before applying Dri-Floor PU or cementitious levelling systems with full blinding with sand, allow:

Substrate Temperature	Min. Waiting Time	Max. Waiting Time
+ 10 °C	24 hours	Not Applicable
+ 20 °C	12 hours	Not Applicable
+ 30 °C	6 hours	Not Applicable

#### Application conditions

Substrate Temperature	10 – 35 °C
Ambient Temperature	10 – 35 °C
Substrate Humidity	No rising moisture according to ASTM test (polyethylene sheet)
Relative Air Humidity	Max. 75%
Dew point	Surface temperature must be +3°C above dew point
Consumption/Dosage	0.3 – 0.5 kg/m <sup>2</sup> per coat, diluted with 8% water by weight.

This is a theoretical estimate and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, and so on.

### SUBSTRATE

The concrete substrate must be sound and of sufficient compressive strength (min. 25 MPa) with a minimum pull-off strength of 1.5 MPa. The substrate can be damp but must be free of standing water and of all contaminants, such as oil, grease, coatings, surface treatments, etc.

Concrete substrates should be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface. Weak concrete should be removed & surface defects, such as blow holes and voids, must be fully exposed. Repairs to the substrate, filling of blowholes / voids and surface levelling must be carried out using appropriate products from the Dri-Patch range of products. Please contact Dritech Chemicals for a recommendation for the appropriate repair materials for your substrate.

High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

### MIXING

*Mixing tools: Low speed electric stirrer (~ 300 – 400 rpm)*

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 1 minute until a uniform mix has been achieved. (Part A : B = 3 : 1 by weight)

When parts A & B have been mixed, slowly add 10% of clean water while mixing, and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

### APPLICATION

Apply **DRI-FLOOR EP 1080** by suitable brush, roller or trowel and overwork with a roller.

Note: The end of the product's pot life is not noticeable. It is of utmost importance that the product's limitations mentioned in this product data sheet are kept. Discard material not used within these times.

### LIMITATIONS

- ❖ At low temperatures and/or high humidity, the curing time will increase.
- ❖ Protect the application from rain / water while reaction and curing is taking place.
- ❖ Dilution of the first coat with 10% of water by weight helps improve the bonding on dense and only slightly absorbent substrates. It also reduces the consumption of the material on excessively porous substrates. When applying a second coat, always use it undiluted.
- ❖ Monitor and control pot life of the mixture as the end of the pot life is not visibly noticeable. Discard material not used within these times.

### 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.