

## PRODUCT DATA SHEET

### FLORPRIME EP

#### DESCRIPTION:

**FLORPRIME EP** is a complete solid epoxy resin adhesion promoter. It is Eco- friendly, low in VOC count, solvent-free with a high level of mechanical and chemical resistance. This product is highly recommended for green building.

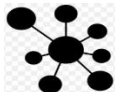
#### APPLICATIONS

This product is suitable for concrete surfaces prior to the application of any of the range of resin-based floor toppings, coatings or epoxy repair mortars

#### KEY FEATURES:



**Low Viscosity:** Allows deep penetration into substrate



**Strong Bond Strength:** Ensures a durable and lasting adhesion



**Short Waiting Times:** Minimizes downtime for efficient application



**Multipurpose Use:** Suitable for various applications and surfaces.



**Compatibility:** Works seamlessly with epoxy and polyurethane topcoats..

## PRODUCT INFORMATION

<b>Composition:</b>	Epoxy
<b>Packaging :</b>	Part A+B pre-batched 6 kg set
	Part A 4 kg container
	Part B 2 kg container
<b>Storage conditions:</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C.
<b>Density :</b>	~1.0 kg/L (+27 °C)

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~67 (7 days, +23 °C)	(ASTM D2240)
<b>Tensile adhesion strength</b>	≥ 1.5 N/mm <sup>2</sup>	(EN 1542)

## APPLICATION INFORMATION

<b>Consumption:</b>	0.15–0.25 kg/m <sup>2</sup>			
	<b>Note:</b> These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.			
<b>Ambient air temperature</b>	+8 °C min. / +30 °C max			
<b>Relative air humidity</b>	80 % max.			
<b>Substrate moisture content</b>	≤ 4 % parts by weight			
	The following test methods can be used: FLOROCK -Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
<b>Waiting time to over coating :</b>	Before applying solvent free products on FLORPRIME EP allow:			
	<table><thead><tr><th><b>Substrate temperature</b></th><th><b>Minimum</b></th><th><b>Maximum</b></th></tr></thead></table>	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
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<b>+10 °C</b>	24 h	4 d
<b>+20 °C</b>	12 h	2 d
<b>+30 °C</b>	8 h	1 d

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity

## **APPLICATION INSTRUCTIONS**

### **Strictly follow installation procedures**

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

### **SUBSTRATE QUALITY**

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

### **SUBSTRATE PREPARATION**

#### **Exposing blow holes and voids**

When mechanically preparing the surface, make sure to fully expose blow holes and voids.

#### **Mechanical substrate preparation**

Remove weak cementitious substrates.

- Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open

textured surface gripping surface profile suitable for the product thickness.

- Before applying thin layer resins, remove high spots by grinding.
- Use industrial vacuuming equipment or brush to remove all dust, loose and friable material from the application surface before applying the Product.
- Use products from the florock range of materials to level the surface or fill cracks, blow holes and voids.
- Contact florock Technical Services for additional information on products for levelling and repairing defects.

#### **Substrate preparation of non-cementitious substrates**

For information on substrate preparation of non-cementitious substrates, contact florock Technical Services.

#### **Treatment of joints and cracks**

Construction joints and existing static surface cracks in substrate require pre-treatment before full layer application. Use florock resins.

#### **Incorrect treatment of cracks**

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

### **MIXING**

- Mix Part A (resin) for ~30 seconds.1.
- Add Part B (hardener) to Part A.2.
- Mix continuously for 3 minutes, until a uniform mix is achieved.

**Note:** Avoid excessive mixing to minimise air entrainment.

- To increase the viscosity of the product, add florock Extender T in defined quantity.
- To ensure thorough mixing, pour materials into an-other container and mix again to achieve a smooth and uniform mix.
- During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only.

## **APPLICATION**

### **1. Usage of aggregates**

Any aggregate used with florock® systems must be non-reactive and oven-dried. For best results, use florock aggregates.

### **2. Application in high moisture**

If > 4 % pbw moisture content, florock® may be applied as a T.M.B. (temporary moisture barrier) system.

### **3. Protect from moisture**

After application, protect the product from damp, condensation and direct water contact for at least 24hours.

### **4. Temporary heating**

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

- For heating, use only electric powered warm air blower systems.

### **5. Pin holes**

If applied on porous substrates during rising temperatures pin holes may occur from rising air.

- Apply during falling temperatures.

### **6. Closing Pin holes**

If pin holes are present after the product has cured, they can be closed by doing the following.

- Lightly grind the cured surface.
- Apply a scratch coat consisting of the product mixed with ~3 % of florock® Extender T.

## **Standard primer application**

- Pour the mixed product onto the substrate. The consumption is specified in Application Information.
- Apply the product evenly over the surface with brush, fleece roller or squeegee.
- Back roll the surface in two directions at right angles with a fleece roller. Maintain a "wet edge" during application to achieve a seamless finish.
- Ensure a continuous, pore free coat covers the substrate. If necessary, apply second coat.
- **(Optional)** If broadcasting is required, wait between 15 and 30 minutes, then broadcast the surface with quartz sand. Broadcast lightly at first, then to excess.
- **(Optional)** Once the product has hardened sufficiently, remove all loose sand with industrial vacuuming equipment.  
**IMPORTANT:** Confirm waiting /overcoating time is achieved before applying subsequent products. (Refer to waiting /

overcoating times in Application Information).

**SAFETY GUIDELINES:**

- Keep containers tightly sealed when not in use.
- Avoid skin contact and inhalation of fumes (if any).
- When spraying, it is advisable to wear a mask for personal protection.
- If the substance comes in contact with the body, wash the affected parts thoroughly with plenty of water.
- In case of persistent irritation, seek medical attention and consult a physician.