



## **PS-E017**

# **INSTALLATION OF TUFFLOOR HYDRO EPOXY**

## **Waterproofing: Fibre-reinforced membrane**

### **1.0 Primer Application**

1.1 HYDRO EPOXY Part A | Part B are to be thoroughly mixed in the correct proportions.

1.2 Power mix at low speed (approximately 300rpm) for 3 minutes ensuring both compounds are homogeneously blended, and the colour is uniform.  
Scrape the pail sides with a long broad-knife and then mix again.  
Mix slowly to avoid air entrapment.

**Note:** *Ensure no unmixed materials remain on the sides, rims or lips of the containers.*

1.3 Apply a minimum one coat of HYDRO EPOXY by brush and roller ensuring it is worked well into the prepared substrate, including joints of a Plywood or Fibre-cement substrate.

1.4 Coverage rate and number of coats of Primer will vary depending on the porosity of the substrate.

1.5 Allow primer to fully cure.

1.6 Porous areas may require further coats until porosity is eliminated.

*If the HYDRO EPOXY Primer coat is left more than 24 hours, it must be sanded and re-primed.*

### **2.0 Internal / External Junctions, Plywood and Fibre-cement Sheet Joints and Upstand Reinforcement**

**Note\***

**Steps 2.1 – 2.6 are only required on the single Fibreglass Layer Application.**

2.1 All junctions should be Fibreglass reinforced prior to the full membrane application.  
**Note\***

2.2 Sheet Joints: will require a 100mm wide strip of 300gsm chopped strand fibreglass matt or polyester cloth tape.

2.3 Internal / External Junctions: will require a minimum 150mm wide strip of 300gsm chopped strand fibreglass matt or polyester cloth tape.

**Note**

**The polyester cloth tape will dry more quickly than the chopped strand mat.**

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- 2.4 In all cases, apply a heavy coat of HYDRO EPOXY body coat and lay in the CSM strip and apply a further body coat. Immediately use a metal laminating-roller to bring the body coat up through the CSM.

- 2.5 Use a garden sprayer to apply a *fine water mist*.  
*This ensures that the HYDRO EPOXY is fluid and wets the glass readily.*

- 2.6 Allow to fully dry (*test*), prior to the full membrane installation.

### 3.0 Fibreglass Reinforcement Preparation

The salvage edge of the fibreglass matt must be “teased” prior to installation.

### 4.0 HYDRO EPOXY Body Coats & Reinforcement

- 4.1 Once the sheet joint reinforcing has cured, apply evenly by way of roller / brush the first body-coat of HYDRO EPOXY to the area to be laid up.  
A wet edge must be maintained across the work face to allow the next section of HYDRO EPOXY to be worked in without showing a ridge.

#### **Note**

***Use a long nap roller to ensure an even coverage and that enough material is used to ensure a full “wet out” of the surface.***

***If there is not enough HYDRO EPOXY on the substrate surface prior to the installation of the fibreglass chopped strand matt it will be difficult to obtain a full “wet out” of the matt.***

- 4.2 Install the pre – prepared fibreglass chopped strand matt into the wet resin body-coat.

#### **Note**

***The fibreglass is to have a minimum 75mm minimum overlap***

- 4.3 The fibreglass matt is to be worked with a “Parsley Cutter” (*laminating roller*) to bring the resin through the matt thus ensuring a complete “wetting out” of the inside of the fibreglass chopped strand matt.

- 4.4 Use a garden sprayer to apply a *fine water mist*.

#### **Critical Step**

Applying a water mist will help bring up the body coat through the mesh.

It is important that the pressure of the roller brings material up, rather than trying to force it down. This process ensures the underside of the CSM is “wetted” by the HYDRO EPOXY.

***Applying more HYDRO EPOXY to the surface and trying to work it back into the matt will cause a dry laminate finish and is unacceptable.***

- 4.5 The sufficient quantity is indicated by surplus spots being forced up by the action of the roller.

- 4.6 Apply the second coat of HYDRO EPOXY wet on wet and roll evenly.

#### **Note**

***If a Double Layer Fibreglass system is being installed, then use additional step***

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### 4.7

4.7 When first layer of chopped Strand matt is completely “wetted out” apply more HYDRO EPOXY and install the second layer of chopped strand matt.

4.8 When matt is completely “wetted out” apply more HYDRO EPOXY and immediately install the Surfacing tissue and subsequent coats of HYDRO EPOXY.

4.9 Check for pinholes or voids and irregularities.  
If the surface appears rough and unfilled, apply a further coat across the full surface.

**Note**

***If there are any areas that are not coated correctly at this stage, you will use significantly more topcoat to achieve the required outcome so ensure that the surface has been fully coated.***

**Observe minimum / maximum re-coat recommendation.**