

## General Method of Statement

### Fosroc Membrane HDPE –P

Pre-applied HDPE pressure sensitive adhesive waterproofing membrane which bonds to poured concrete.

## Section A : General Comments

### Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement.

**Protective clothing** : Protective overalls  
 : Good quality gloves, goggles, face mask and safety shoe

**Application equipment's** :



## Section B : Application Method

### 1.0 Surface Preparation

- 1.1 Clean all concrete surfaces free of laitance, dust, dirt, cavities, projecting nibs etc.
- 1.2 Make sure that the surface is smooth, it does not need to be dry but it must not have any standing water.
- 1.3 All surfaces must be free of loose aggregates and sharp protrusions

### 2.0 Application – Horizontal

- 2.1 The **FOSROC Membrane HDPE-P** shall be applied with sanded face uppermost to receive fresh concrete to which it will chemically adhere.
- 2.2 Laps between sheets shall be rolled to ensure good adhesion of the selvedge.
- 2.3 Roll ends or cut edges shall be sealed on the underside with **Fosroc Membrane HDPE-P sealed tape/ HDPE tape** sealed on the top side with a seam of **Fosroc membrane HDPE-P sanded tape**.
- 2.4 Alternatively heat sealing shall be used to seal roll ends or cut edges and followed by seamed sanded tape.
- 2.5 Penetrations through the membrane i.e. pipe entries, shall be made watertight using Fosroc Membrane HDPE-P with the accessories.
- 2.6 Only ancillary products of Fosroc membranes may be used in conjunction with the Fosroc membrane HDPE-P
- 2.7 Water proof joints at concave and convex corner details, cut the gusset with appropriate size and eliminate the needle holes at corners. Stick with double-face adhesive tape for self-adhesive overlapping

### 3.0 Application - Vertical

- 3.1 Where **Fosroc Membrane HDPE-P** is applied to removable formwork; it is recommended that a minimum concrete compressive strength of 10N/mm<sup>2</sup> is reached before the formwork is stripped.
- 3.2 Mechanically fasten the membrane vertically using fasteners appropriate to the substrate with sanded face uppermost to receive fresh concrete to which it will chemically adhere. The membrane may be installed in any convenient length. Fastening can be made through the selvedge using a small and low profile head fastener so that the membrane lays flat and allows firmly rolled overlaps.
- 3.3 Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal

### 4.0 Roll ends and cut edges

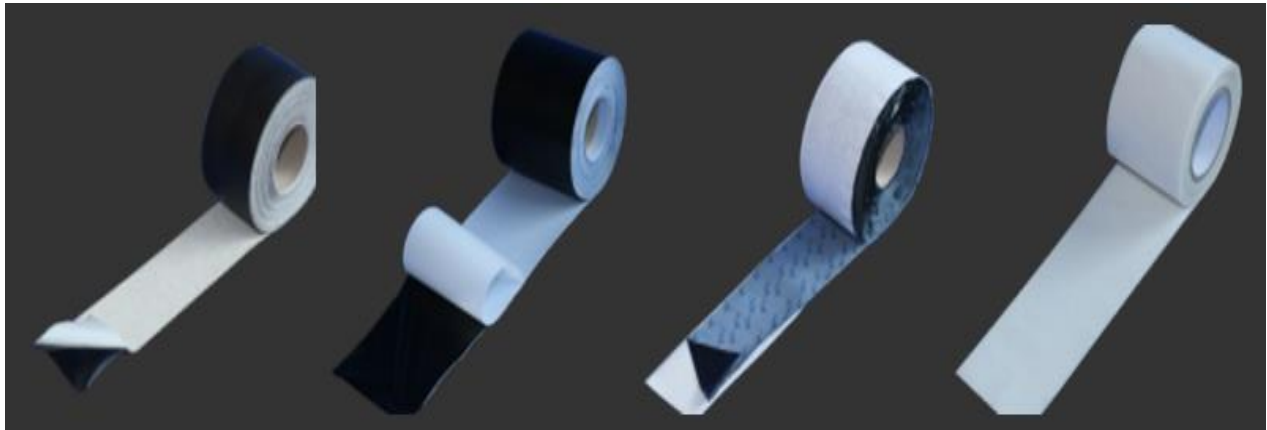
- 4.1 Overlap all roll ends and cut edges and ensure the area is clean and free from contamination and apply **Fosroc membrane HDPE-P** sealed tape and roll.

### 5.0 Pile tops

- 5.1 Cut the Fosroc membrane HDPE-H tight around the pile top
- 5.2 Create formwork as necessary and mix and pour Supercast EPT to fully encapsulate the pile top and edges and seamlessly join to the Fosroc Membrane HDPE-P
- 5.3 Adhere a strip of Fosroc Membrane HDPE-P to the Supercast EPT sides all around the pile top and apply seam of Fosroc polyurea WCS/sanded tape/Nitoproof 600 all around the pile top.

## 6.0 Installation

### 6.1 Different tapes used as accessories for Fosroc HDPE –P membrane



**Tape :1**

**Tape :2**

**Tape :3**

**Tape:4**

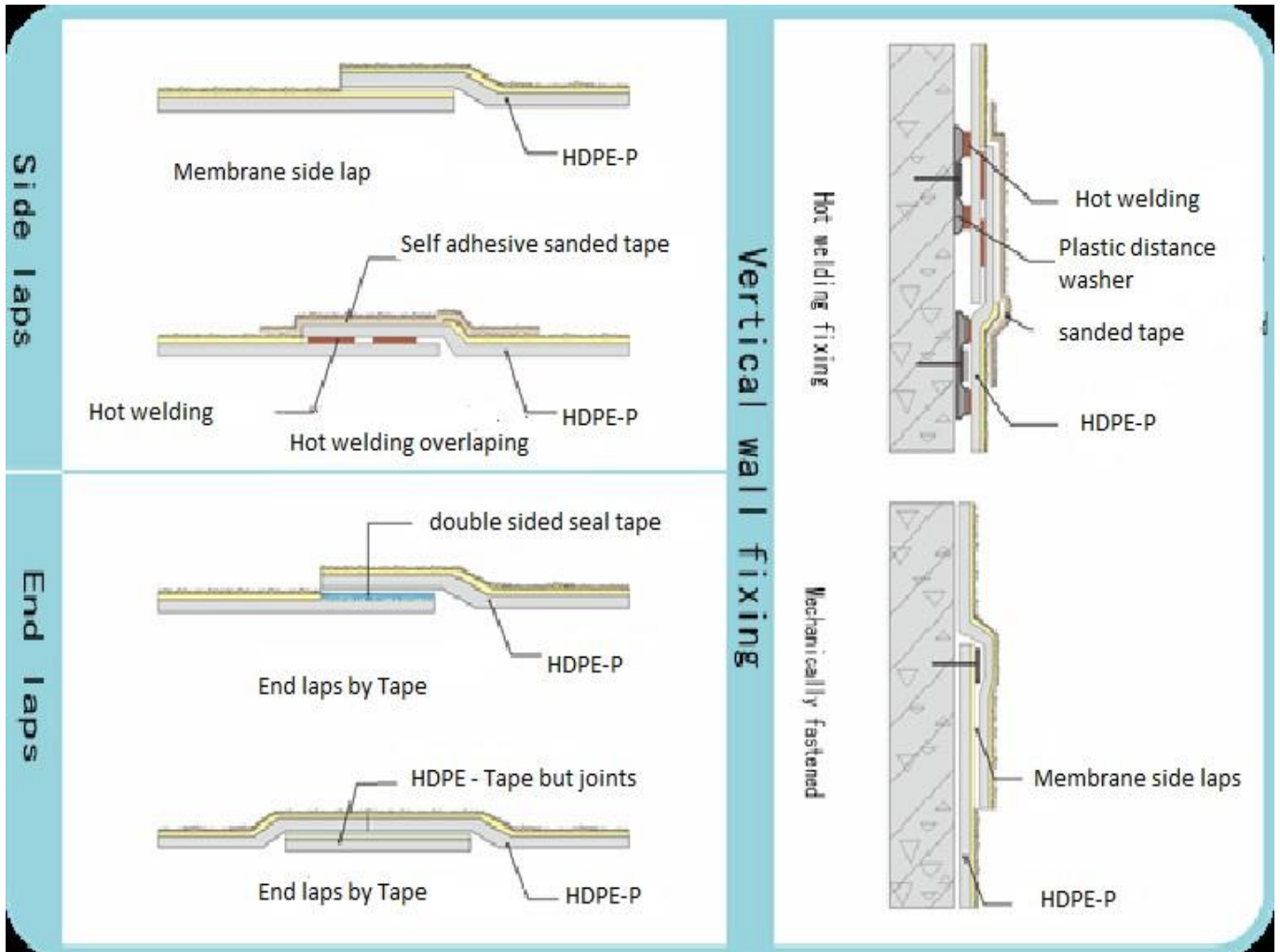
Tape:1 Self –adhesive tape with sand used for sealing of the needle hole , repairing , overlapping reinforcement.

Tape:2 HDPE Tape Used for butt joints of the end laps

Tape:3 Self-adhesive double sided tape used for end laps

Tape;4 Reinforced double-side tape used for used for end side laps and overlapping of different material

## 6.2 Membrane Application side laps, end laps and vertical wall



## 6.3 Horizontal application



1. Substrate Preparation
2. Installation of membrane
3. Rolls overlapping
4. Tie up reinforcement

(Loose laid)

(Cast concrete & proceed)

### 6.0 Vertical application:

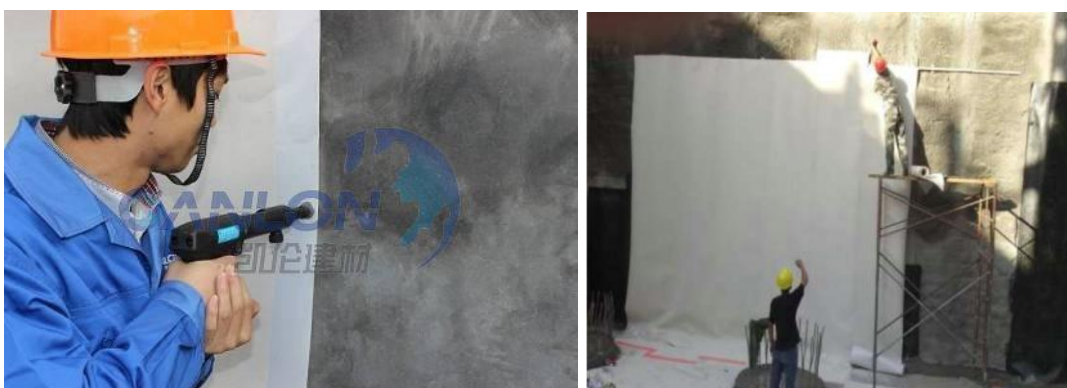
Make sure that the surface is smooth, it does not need to be dry but it must not have any standing water. All surfaces must be free of loose aggregates and sharp protrusions



Smoothing the surface using masonry or cement mortar



Smoothing the rough surface by removing undulations and sharp protrusions and fixing the plywood to make the surface smooth



Mechanical fixing using shot screw at 400 mm-600 mm using nail gun



Nail Gun : Indirect (Piston Compressor Principle),  
Weight :1.9kg, Length :350mm;  
Nails :Length-32mm  
Gasket : Metal Diameter: 25mm, Thickness: 2mm.  
Comments : Once shot, remove the rubber





*constructive solutions*

## **Section C : Approval and variations**

This method statement is offered by Fosroc as a „standard proposal“ for the application of **Fosroc membrane HDPE-P**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Fosroc for approval, in writing, prior to commencement of any work. Fosroc will not accept responsibility or liability for variations to the above method statement under any other condition.