

General Method of Statement

Fosroc Membrane HDPE –S

Post applied HDPE -S, self-adhesive membrane for Retaining wall and other RCC members.

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 All concrete surfaces should be shutter finish and free from any type of laitance, dust, dirt, cavities, projecting nibs or shuttering dowels etc.
- 2.1 Make sure that the surface is smooth and doesn't have any sharp protrusions. Any honey comb, or surface defects should be repaired using structural grade repair mortar
- 3.1 The concrete should have cured properly; moisture content on the surface will not allow the membrane to bond properly. The surface must be dry free from contamination, ice and frost.

2.0 Application – Vertical

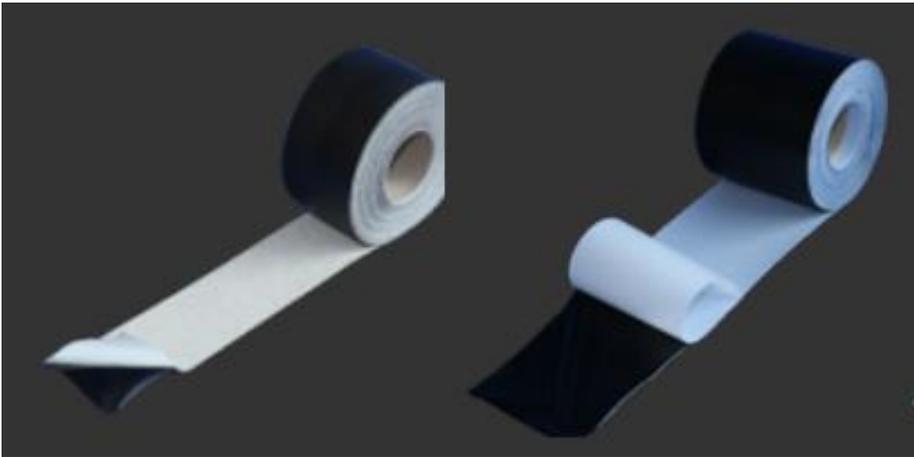
- 2.1 **Fosroc Membrane HDPE-S** is a post applied self-adhesive membrane to the RCC member. It is recommended that the concrete should be in dry condition.
- 2.2 The membrane should be fixed vertically by removing the protective adhesion removable film from the HDPE-S membrane with an overlap of 75mm longitudinal side and 100mm on the transversal side. The membrane should be firmly applied to the vertical RCC member by Rolling with the metal roller with ample amount of pressure, ensuring proper bonding with the substrate.
- 2.3 Ensure the underside of the lapping succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal. 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.
- 2.4 In case of non-adherence to the surface due to the moisture content the membrane HDPE-S can be mechanically anchored using aluminium nails with washers.

3.0 Roll ends and cut edges

- 3.1 Overlap all roll ends and cut edges and ensure the area is clean and free from contamination and apply **Fosroc membrane HDPE-S**.

4.0 Installation

4.1 Different tapes used as accessories for Fosroc HDPE –S membrane



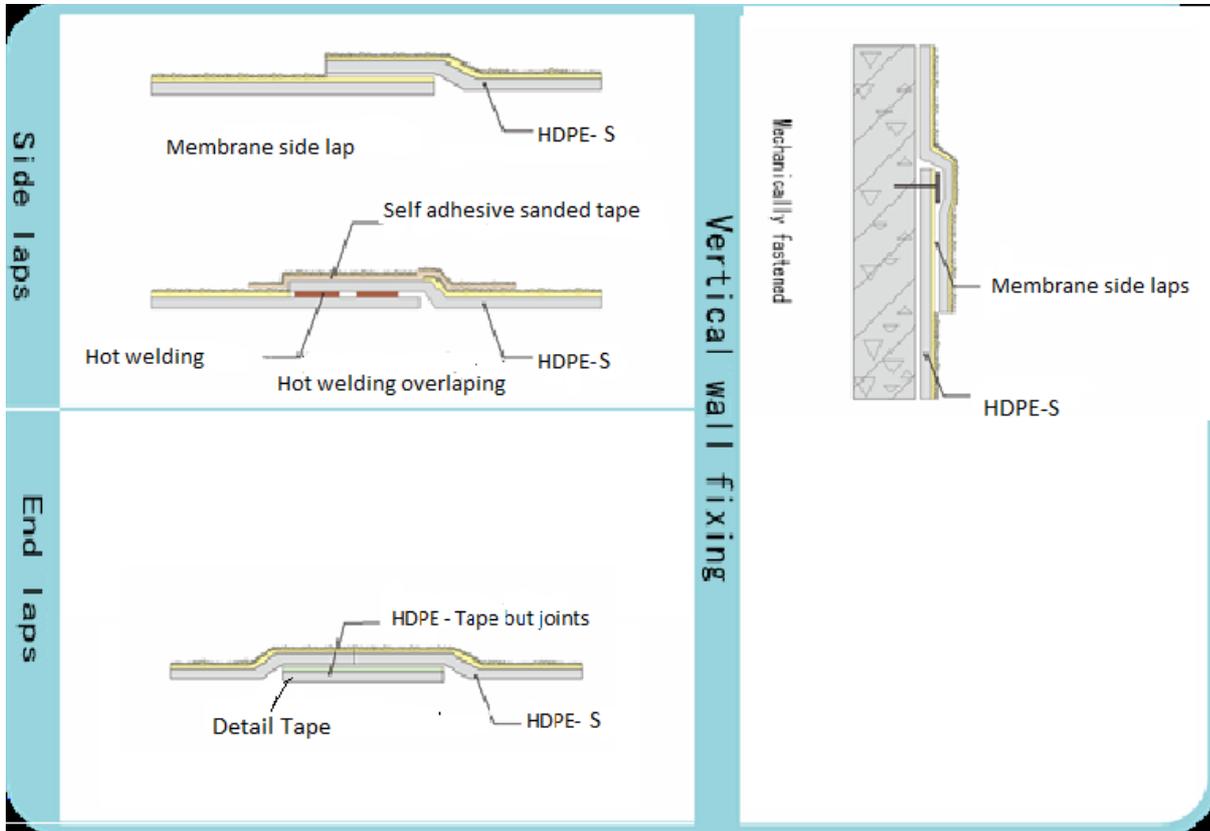
Tape :1

Tape :2

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

Membrane Application side laps, end laps and vertical wall



5.0 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



After application

Section C : Approval and variations

This method statement is offered by Fosroc as a „standard proposal“ for the application of **Fosroc membrane HDPE-S**. 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.