

# Water Proofing with App membrane

## Procedure and Applications:

1. *Surface Preparation:* - Clean all concrete surfaces free of laitance, dust, dirt, cavities, projecting nibs etc.
2. Make sure that the surface is dry and smooth.
3. RCC should be made smooth.
4. All surfaces, shall be coated with Primer by brush or roller, and allowed to dry to a tack free condition, prior to application of the membrane.
5. If left for more than 24 hours, the surface should be re-primed before proceeding with application of the membrane.
6. The area of APP Membrane 3P laid in a working day should not exceed that which can be effectively protected in the same working period, in order to ensure that the membrane is not subjected to site traffic.
7. Lay out the first complete roll of APP Membrane 3P and align with a chalk line set out on the floor.
8. The membrane is unrolled and placed in the correct position where it is to be torched on later.
9. During each stage, each roll must overlap the next layer by at least 10cm.
10. The membrane is rolled back without changing the orientation. The rolled membrane is slowly unrolled again, while its surface is lightly heated, transversally, by means of a propane gas torch, thus causing surface melting and subsequent adhesion to the surface.
11. End joints should be made with a minimum of 15cm overlap.
12. Where APP Membrane 3P is to be terminated (e.g. at a parapet wall) a 20 mm x 20 mm chase should be provided. The membrane should then be dressed into the chase and pointed immediately with Plastiseal, or similar approved bituminous sealant.

## **Penetration Points**

- Where a penetration needs to be made in the APP Membrane 3P (e.g. for pipe entry), reinforcing strips (star cut and splay cut) will need to be specially provided, in accordance with Shivam/STP recommendations.
- On the horizontal surface spreading a layer of polyethylene sheet of 200 gauges and struck with bitumen compound at the overlap joints.

### Installation of APP Membrane

1. The surface to be waterproofed is completely cleaned and made free from dust particles, nails, oils, protruding nibs etc.
2. Application of concrete primer on the surface.
3. The primer must be allowed to dry completely before applying the membrane.



4. Membrane application by unrolling the roll and aligning the side laps. Reroll the roll halfway, standing on the unrolled prevent shifting.
5. Torching of the exposed polyethylene side of the rolled portion. Walking forward as the torching is in progress, consecutively push the heated coil forward and step on with the boot.
6. Proper torching procedure involves passing the torch flame in an “L” pattern across the coiled portion of the roll and up the side flap area.. As subsequent rolls are installed heat is applied both to the roll and the exposed laps of the membrane being overlapped onto.
7. As the material is heated, the roll becomes shiny and the polyethylene film melts away.
8. Proper application of heat is applied during the application process.

