

Proposed Scope Of Work For INSUWRAP PVC Internal Lining System For Water Tanks

1. Scope of Work

1.1 Installation (Horizontal area)

- A. Internal concrete surface should be smooth, clean and free from sharp projections other wise a protection layer (non-woven polyester 140 g/m²) must be used to receive PVC membranes.
- B. Apply INSUWRAP PVC liner non toxic 1500 LNTR (1.5mm thick) lining membrane loose laid for horizontal areas with 50 mm overlaps by using hot air welding technique. Horizontal PVC membranes must be installed to 200 mm height on the vertical walls to enable the welder to join the horizontal membranes at the corners. The membranes will be mechanically fixed with PVC coated angles or strips properly and it will be welded to the vertical PVC membranes.

1.2 Installation (Vertical area)

- A. Vertical concrete surfaces should be smooth, clean and free from sharp objects otherwise; a protection layer (non-woven polyester 140 g/m²) will be used to receive PVC membranes.

- B. Apply PVC LNTR lining membrane vertically by mechanical fixation using aluminum strips or PVC coated metal strips (30mm width with smooth edges) fixed by fasteners at the end of the lining membranes or each roll. Overlaps (50 mm) will be welded homogeneously using hot air welding technique.
- C. PVC coated galvanized metal strips or Aluminum flashing (50mm width) with one bend (10mm) shall be provided on the termination of the lining membranes. Non-toxic sealant will be filled on the top of the flashing.
- D. All inlet and outlet pipes, corner, flanges, ladder etc., passing through junctions must be completely watertight using preformed collars fully bonded/sealed to the mentioned fittings. Dressings can be made at the site using the same PVC liner.

2. **TEST METHOD:**

To check welding quality at the overlaps, Visual test, Needle test or Vacuum test can be used when necessary
