

## **CICO SYSTEM OF ROOF WATERPROOFING TREATMENT**

### **A.) SURFACE PREPARATION**

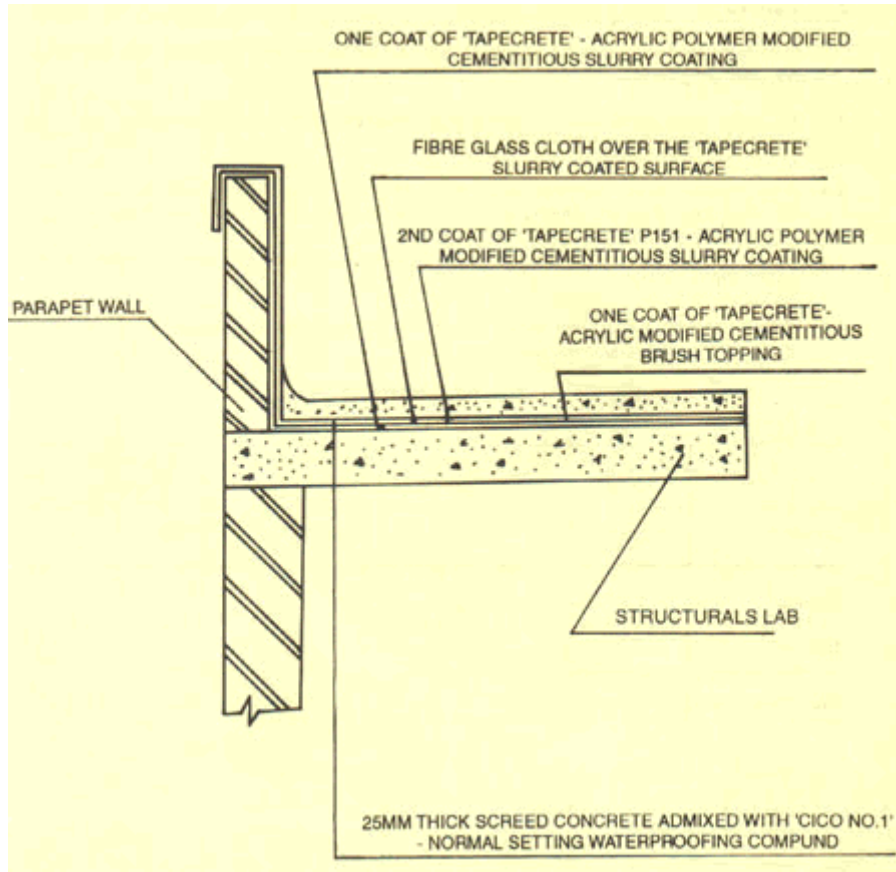
1. Prior to application of TAPECRETE - P151 work, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits of contaminants which could affect the bond between the surface and the TAPECRETE P-151 coating.
2. New surfaces of the structural concrete shall be reasonably smooth to avoid sharp projections so as not to impede the application of TAPECRETE coating.
3. All concrete surface shall be thoroughly pre-wetted for at least one hour prior to the application of TAPECRETE coating by sprinkling of water on flat surface and by vigorously spraying water on vertical/inclined surfaces.
4. When placing TAPECRETE coating, all water shall be removed so that surface is only damp or surface dry. In no case there shall be standing water or a shiny wet surface.
5. Depressions are filled and levelled using PMC fillers. For the PMC filler the mixing ratio is 1 kg cement : 1.5 kg silica sand and 0.52 kg TAPECRETE P-151.

### **B). APPLICATION**

1. Application of one coat of TAPECRETE -P-151 Polymer Modified Cementitious (PMC) slurry coating over the prepared concrete surface. The slurry shall be spread out over an area which can be covered with fibre glass fabric before the slurry dries out.
2. Unroll the fibre glass fabric on to the wet slurry layer and impregnate with PMC slurry by pressing the fabric down so as to even out all wrinkles.
3. Application of one coat TAPCRETE P-151 slurry coating over the glass fabric so as to fill and over the fabric.
4. Application of one coat TAPECRETE-P151 - PMC brush topping over the TAPECRETE -P151 slurry coating applied surface after the slurry coat has dried on the next day.
5. Providing protective overlay of 25mm minimum thick screed concrete / plaster to slope of (1 in 100) admixed with CICO No. 1 Integral Cement Waterproofing compound after curing of PMC brush top coating.

#### **NOTE :**

TAPECRETE-P-151 Polymer is mixed with neat cement in the ratio of 100 kg cement: 52 kg. of TAPECRETE-P151. The mix has to be stirred thoroughly until no air bubbles remain in the mix and lump found in the mix, should be removed.



### C).Curing

1. During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions.
2. No traffic shall be allowed on a standard TAPECRETE-P151 treated surface within 48 hours after installation.
3. After application of final coat of TAPECRETE-P151 composition, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing.
4. Moist curing shall be done for the next 24 hours by way of spraying water on the TAPECRETE system.
5. Following moist curing, the TAPECRETE-P151 coating shall be allowed to air dry for 3 days before submersion in water.

| <b>MIX PROPORTIONS</b>  |                       |                |                            |                      |
|-------------------------|-----------------------|----------------|----------------------------|----------------------|
|                         | <b>TAPECRETE-P151</b> | <b>SLURRY</b>  | <b>TAPECRETE</b>           | <b>BRUSH TOPPING</b> |
|                         | Single coat           | Double coat    | 1.5mm thick/m <sup>2</sup> | meter <sup>3</sup>   |
| <b>Constituents</b>     | Quantity in kg        | Quantity in kg | Quantity in kg             | Quantity in kg       |
| <b>Cement</b>           | 0.488                 | 0.730          | 1.289                      | 858                  |
| <b>Tapcrete-P151</b>    | 0.253                 | 0.379          | 0.670                      | 446                  |
| <b>Fine Silica Sand</b> | —                     | —              | 1.289                      | 858                  |

