

CICO SYSTEM OF WATERPROOFING TREATMENT TO UNDERGROUND STRUCTURE

A). RAFT

1. The sub-base concrete (lean concrete) to be rendered smooth with cement : sand mortar (1:3) while it is still green.
2. Application of one coat of TAPECRETE P-151- PMC slurry over the properly rendered surface.
3. Application of one coat Tapecrete - P151 Acrylic Polymer Modified Brush Topping over PMC slurry coating after the slurry coating has dried on the next day.
4. Placing and fixing 15 NB threaded nozzles of suitable length prior to or during concreting, at a regular interval not exceeding 1.5 m apart along the construction joints. Adequate precaution shall be taken to keep the nozzles plugged at both ends to prevent them from getting clogged by concrete. Similar nozzles shall be post fixed at critical points, if required.
5. Casting of RCC slab minimum M-20 grade and W/C ratio not exceeding 0.50 admixed with CICO PLAST SUPER- Superplasticiser-cum-cement waterproofer, or admixed with CICO No. 1 - Integral cement waterproofer as per recommended dosage.
6. Injection of CICO GROUT E1 Polymeric non-shrink - high strength grout through the nozzles under pressure by pump. The grout should flow through all pores, cracks and shrinkages thereby sealing them.
7. Sealing off the nozzles after the injection operation is over with CICO quick setting admixture with cement.

B).RETAINING WALL

1. Placing and fixing 15 NB threaded nozzles of suitable length which shall be provided at a regular interval not exceeding 1.5 m apart along the construction joints of the retaining wall prior to or during concreting. Adequate precaution shall be taken to keep the nozzles plugged at both ends to prevent them from getting clogged by concrete. Similar nozzles shall also be post fixed at critical points, if required.
2. Casting of RCC walls minimum M 20 grade and W/C ratio not exceeding 0.50 admixed with CICO PLAST SUPER - superplasticiser-cum-cement waterproofer as per recommended dosage or CICO No. 1, integral cement waterproofer.
3. Application of one coat of TAPECRETE - P151 - PMC slurry coating over the properly rendered external face of the retaining wall.
4. Application of one coat TAPECRETE - P151 - PMC brush topping over PMC slurry coating.
5. Injection of CICO GROUT E1 Polymeric non-shrink high strength grout through the nozzles already fixed under pressure by pump. The grout should flow through all pores, cracks, voids and shrinkage thereby sealing them.
6. Sealing off the nozzles after the injection operation is over with CICO quick setting admixture admixed with cement.