

METHODOLOGY FOR WATERPROOFING BASEMENT FROM –VE SIDE

15 (FIFTEEN) YEARS GUARANTEE

PROVIDING AND LAYING WATERPROOFING FOR RAFT, RETAINING WALL, FOOTINGS, ETC. IN BOX-TYPE FASHION USING CATALYTIC IN-DEPTH CRYSTALLIZATION SYSTEM

(A) RAFT & FOOTINGS (ON RCC ABOVE RAFT):

The civil contractor shall pour RCC concrete as per the specification of Consultant / Client.

- (1)
- (2) We shall allow the RCC to set a minimum period of 24 – 48 hours and then clean the RCC concrete surface thoroughly. We shall ensure that the surface is free of loose material, dirt, dust, oil, grease or other foreign matter before we start **GS®** treatment.
- (3) We shall plug any minor leakages on the PCC with GS 107 / GS 109.
- (4) **GS 101®** “Catalytic” In-depth Crystallization Waterproofing System shall be applied at a rate of 1 Kg / Smt by us on the entire RCC surface and the footings. The **GS®** Waterproofing System shall include treatment of joints (a) between the RCC Raft along the periphery, (b) between the columns and the raft with GS 107 / GS 109.
- (5) **GS 101®** “Catalytic” In-depth Crystallization Waterproofing System shall be allowed to set for atleast 8 – 10 hours and then we shall start curing for 3 – 4 days atleast 3 times a day.
We shall barricade the “applied” area during the curing period of 3 – 4 days. The **GS®** treatment achieves its full hardness in 4 days and cannot be abraded by walking, moving trolleys, etc.

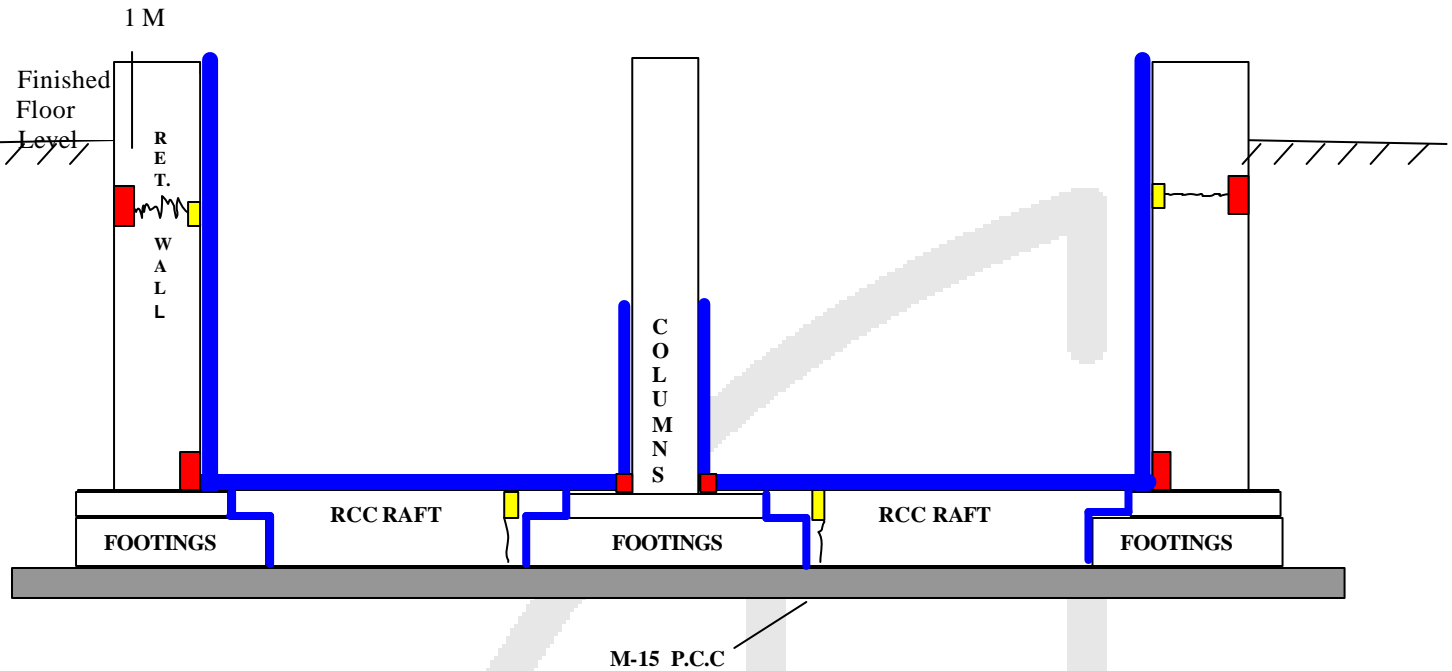
(B) RETAINING WALL / VERTICAL SURFACE OF FOOTINGS:




- (1) Casting the RCC Retaining Wall / footings by the civil contractor and allowing setting for at least 24 – 48 hours.
- (2) After de-shuttering by the civil contractor, we shall clean the retaining wall / footing vertical surface thoroughly. We shall ensure that the surface is free of loose material, dirt, dust, oil, grease or other foreign matter, before starting **GS®** treatment.
- (3) **Treatment of Construction Joints on retaining wall by us :**
 - (a) Cutting ‘U’ shaped groove of approx. 1” (W) x 1 “ (D) along the construction joints with a mechanized cutting machine / chipping.
 - (b) Filling the ‘U’ groove upto surface with GS 107 / GS 109 after application of **GS 101®** Crystalline material @ 1 Kg / Smt in to the groove.
- (4) **Treatment of Surface Honeycombs on the retaining wall by us :**
 - (a) Removing unsound concrete upto sound concrete in a ‘U’ shaped cavity around the honeycombing.
 - (b) Filling the ‘U’ cavity upto surface with GS 107 / GS 109 after application of **GS 101®** Crystalline material @ 1 Kg / Smt in to the cavity.
- (5) **Treatment of Tie Holes on the retaining wall by us :**
 - (a) Cutting ‘U’ Shaped cavity of approx. 2” (W) x 2“ (D) around the tie hole.
 - (b) Filling the ‘U’ cavity upto surface with GS 107 / GS 109 after application of **GS 101®** Crystalline material @ 1 Kg / Smt in to the cavity.
- (6) **GS 101®** “Catalytic” In-depth Crystallization Waterproofing System shall be applied at a rate of 1 Kg / Smt by us on the entire RCC retaining wall from inside / footing vertical surface. The **GS 101®** treatment on the retaining wall shall extend from the toe of the raft upto 1 m above the finished floor level.
- (7) **GS 101®** “Catalytic” In-depth Crystallization System shall be allowed to set for atleast 8 – 10 hours and then we shall start curing for 3 – 4 days atleast 3 times a day.

NOTE :

- (1) *Should there be leakage/ seepage/ dampness from the construction joints on raft / retaining wall after it has been casted it shall be grouted / plugged from the negative side using Gs 107 / GS 109.*

Greenshield® (I) Construction Chemicals Pvt. Ltd.



-  **GS 101® “CATALYTIC” IN-DEPTH CRYSTALLINE WATERPROOFING SYSTEM IN BOX-TYPE FASHION**
-  **GROUTING / FILLING TREATMENT OF CONSTRUCTION JOINTS/ SURFACE HONEYCOMBS / TIE HOLES WITH GS 107 / GS 109**
-  **PLUGGING TREATMENT OF LEAKING CONSTRUCTION JOINTS / LEAKING MISCELLANEOUS POINTS (ONLY) WITH GS 109**