

# NEW BOUNDARY WALLS FOR RESIDENTIAL PROJECTS.



## Summary of application

**STEP 1:** Addition of **Water Guard Crysta Admix 103** in the plinth beam of the boundary wall concrete mix.

**STEP 2:** Application of **Water Guard Crysta Coat 101** over the plinth beam.

**STEP 3:** Addition of **Ressi SBR 5850** and **Silmix** in the masonry laying mortar.

**STEP 4:** Addition of **Ressi SBR 5850** and **Silmix** in the Plastering / rendering mortar of the boundary wall.

**STEP 5:** Application of **Paint Guard 10,000C** over the plastered surface prior to paint.

**STEP 6:** Painting the surface (if needed).

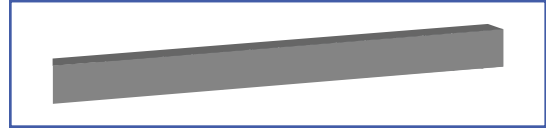
## Detailed Description

Boundary walls are one of the most affected areas of any project. One of the core reasons is that boundary walls are most exposed to the elements, weathering effects, ground level rising dampness and on many occasions, planter areas are affecting the boundary walls with rising dampness.

Ressichem has a variety of products presented as a proper system to ensure construction of maintenance free boundary walls. There are a variety of materials which are applied at each step of the boundary wall construction process.

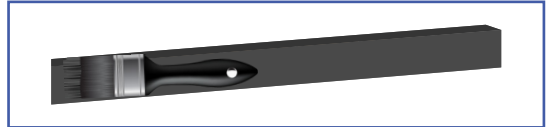
### Step 1: Plinth beam

Whilst casting the plinth beam it is essential to make sure that an excellent quality integral waterproofing admixture is mixed with the concrete to minimize the concrete's ability to absorb moisture. **Water Guard Crysta Admix 103** is an ideal integral waterproofing admixture to be used in the concrete mix to ensure minimum moisture penetration through the plinth beam.



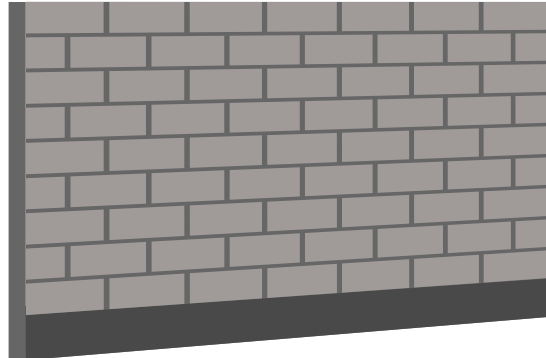
### Step 2: Application of Water Guard Crysta Coat 101 over plinth beam.

Once the plinth beam has been casted, it is recommended to coat of **Water Guard Crysta Coat 101** over the plinth of the boundary walls at all its exposed sides. 2 coats of **Water Guard Crysta coat 101** are recommended in opposite right-angled directions, If the first coat is applied right to left, then the second coat should be applied in top to bottom direction.



### Step 3: Masonry

It is recommended that all the mortar required for the erecting of the masonry should include a combination of **Silmix** and **Ressi SBR 5850**. It is recommended to add 500ml of **Ressi SBR 5850** and 500ml of **Silmix** each for the use of every 50 KG Bag of cement. A masonry mortar made from this combination will ensure that the mortar used for laying the masonry is water resistant and strong.



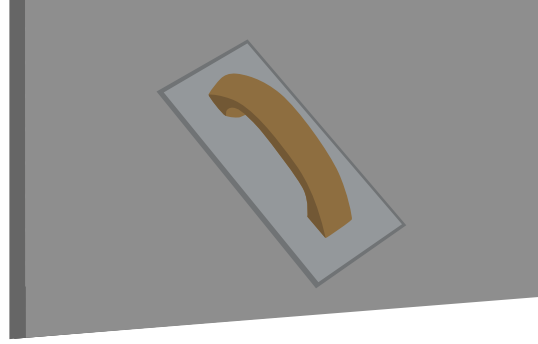
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## Step 4: Plastering / Rendering

For plastering, a mortar made from a mix of **Silmix** and **Ressi SBR 5850** is essential. For the plaster mortar use 1 Ltr of **Silmix** and 1 Ltr of **Ressi SBR 5850**, Both should be mixed with the mixing mortar of the plaster / render material of the plaster. A recommended ratio for the plaster of 1:4 (Cement: Sand) is usually recommended in this case.

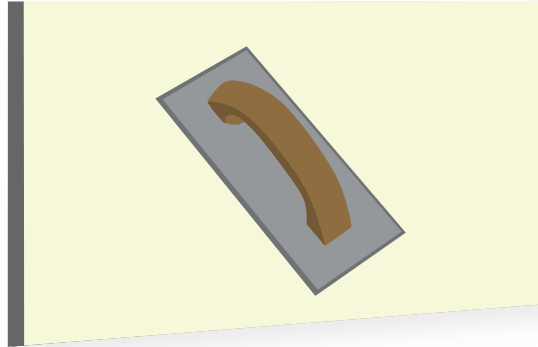
**Note:** The curing of the plaster / render is recommended by using a diluted solution of **Silmix** with Water (1:100) – (Silmix: Water). This will make the plaster / render surface further resistant to water ingress.



## Step 5: Finishing

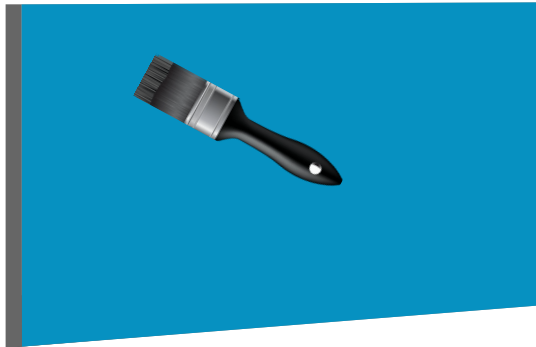
A variety of finishing products, like stones, tiles etc. can be applied over the finished plastered surface of the boundary wall. Ressichem has a variety of products which can be used for the fixing of tiles, stones, & has many products within its decorative plaster range which can be used to finish the boundary wall and structures. In case paint is to be applied over the surface, it is recommended to use **Paint Guard 10,000 C** over the surface of the boundary wall & then paint over it. There is no requirement of paint primer & putty in case **Paint Guard 10,000 C** is used. It is recommended to apply this material at a minimum thickness of 2mm over the boundary wall. Paint Guard can be applied using a scrapper or a trowel over the plastered surface of the boundary wall. (Please refer to product technical datasheet for further application guidelines).

**Note:** One of the most durable and economical finishes can be achieved by simply leaving the **Paint Guard 10,000 C** exposed on to the external boundary wall surface.



The surface of **Paint Guard 10,000 C** can be protected using **Silblock** (Water repellent sealer).

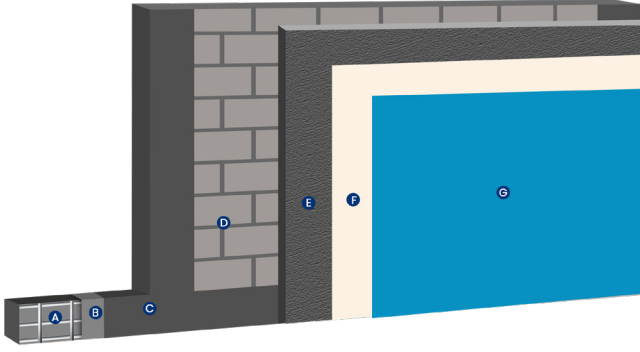
## Step 6: Painting the surface (if needed).



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## System Summary



### NEW BOUNDARY WALL RESIDENTIAL

- A: Steel Reinforcement
- B: Concrete Plinth with Water Guard Crysta Admix 103
- C: Water Guard Crysta Coat 101
- D: Masonry Mortar with Ressi SBR 5850 and Silmix
- E: Plaster with Ressi SBR 5850 and Silmix
- F: Paint Guard 10,000 C
- G: Surface Finish

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