

# RENDERCON® '5S'

## Dampness Repair

### PROBLEM TO ADDRESS

A residential project is being constructed with Miwan formwork. On the 7<sup>th</sup> floor, dampness raised in the walls up to 3 feet affecting the just puttied walls. Source of water ingress was undeterminable by the project team. The puttied walls were chipped off and replastered twice but the problem of dampness came back again and again.

### ADDRESSING THE PROBLEM

The water ingress was suspected to be from the floor tiles in the balcony. The water propagated beneath the tiles into the living room and the dampness raising. But removing all tiles and relaying was not an option. So, it was important for RenderCon to prove that raising dampness can be stopped without removing the tiles. Here is how.

Case Study

1. **Chipping:** All the putty and plaster removed and the surface was rough enough to receive the new plaster. However, dampness was observed on the rough surface. Halogen lamps were placed against this rough wall for about 4-6 hours.
2. **RenderCon '5S':** Cement Mortar of 1:4 (Cement : M Sand) with 3 bags of cement and 3 sachets RenderCon 5S is prepared as 3 separate batches.
3. **Application:** Masons applied mortar on the walls and levelled it to come to the level of the concrete wall, with due allowance to putty to come up over it.
4. **Halogens:** After about 12-15 hours of application of mortar, halogens were once again switched on to dry out any moisture that must have crept in before the mortar is set. The halogens were on for about 5-6 hours.



Chipped off and halogen lit



Plaster applied and ready for taking halogen light (after setting).

6. **Check:** Monsoon set in the following week, where there were no signs of dampness on the plastered wall.
7. **Putty:** After 15-20 days of monsoon, putty was applied after ensuring that no dampness is observed.



Tested for Hydrophobicity after 48 hours.

Notes: The use of halogens will depend on the moisture that is being seen in the plaster. Enough ventilation is required in the room for the plaster to set faster. For, this the doors and windows were kept open.