

What is Efflorescence?

Efflorescence is the formation of salt deposits on the surface of concrete and masonry. These salt deposits appear as chalky and whitish substance on exterior surfaces.



How does Efflorescence Occur?

There are **3 MAIN CONDITIONS** that causes efflorescence.



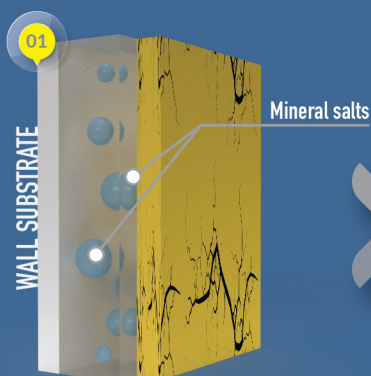
Water soluble salts must be present.



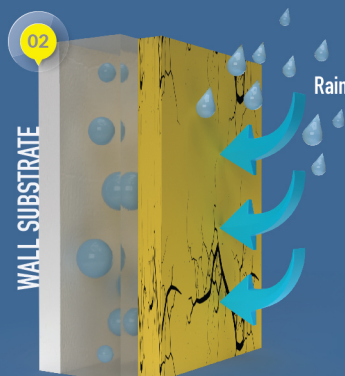
Moisture to dilute the soluble salts.



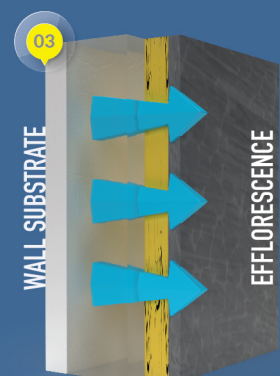
Pathway for salts to travel to surface.



Soluble mineral salts are always present in brick, concrete, plaster, etc. surfaces.

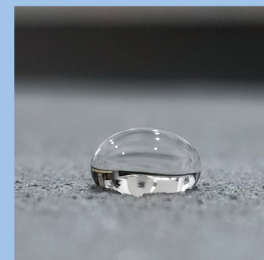
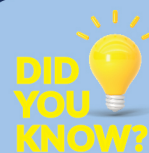


Cracks on the surface allows moisture from the environment to enter & **dissolve the mineral salts**.

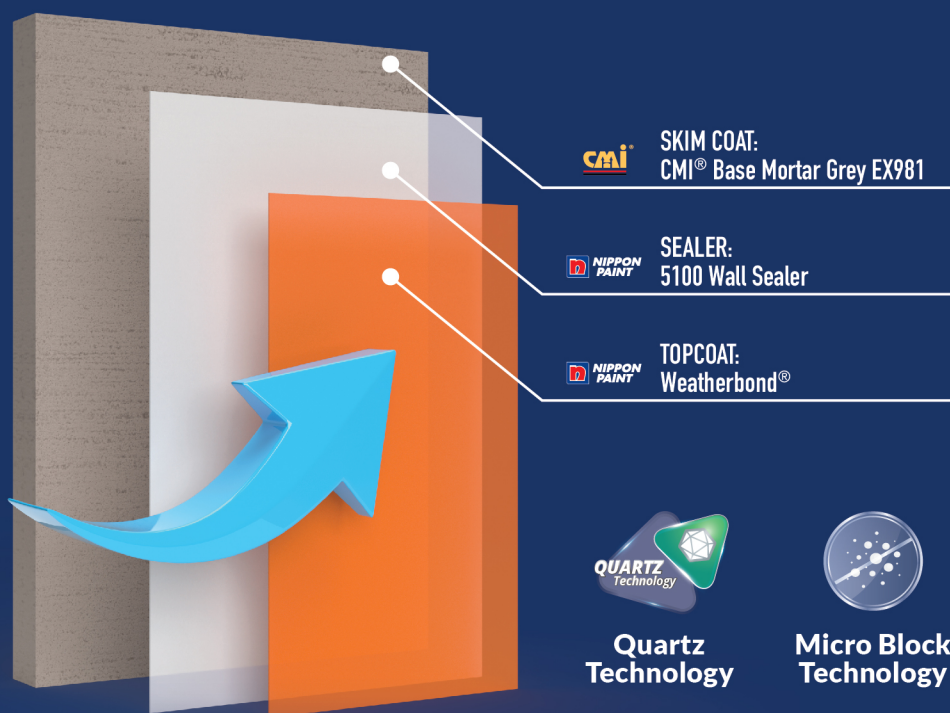


Diluted mineral salts migrate through the cracks onto the surface & **evaporate**, leaving white crystalline salts on the surface.

1st in the Region Anti-Efflorescence System: Compatible System Solution from Skim Coat to Paint



Hydrophobic skim coat prevents water from seeping through into the wall substrate.

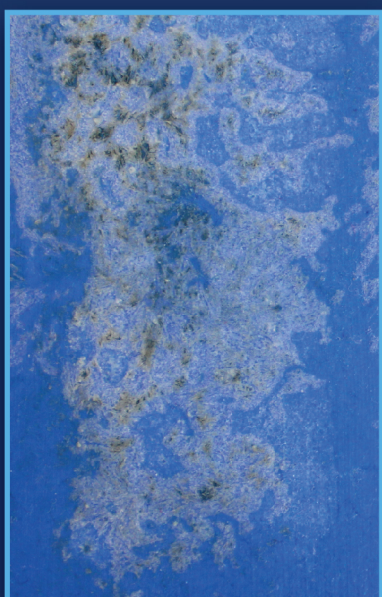


Notes: All preceding systems must adhere to the Anti-Efflorescence Solutions provided by CMI®.

How does Efflorescence affect different wall systems?

Efflorescence testing conducted for 90 days to observe the salt formation for different coating systems.

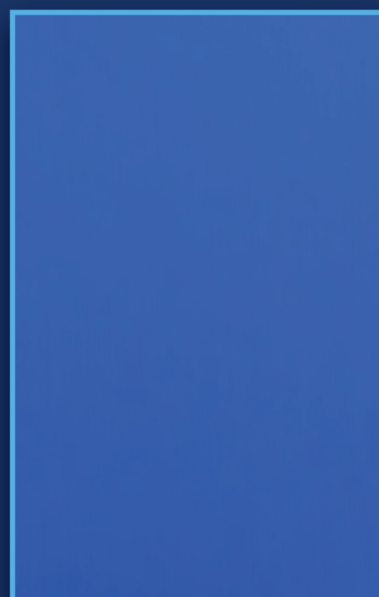
Conventional Exterior
Finish only



Conventional Exterior
Sealer + Finish



Nippon Paint
Anti-Efflorescence System



Notes:

1. Efflorescence testing conducted by placing coated panels onto cotton soaked with salt solution and left to observe the salt formation on the surface.
2. Testing scenario is considered an extreme condition and does not reflect actual site efflorescence.