

SUBSTRATE PREPARATION

SUBSTRATE FLATNESS

The substrate should be flat for an accurate and easy tiling application.



SUBSTRATE STABILITY

Disbonding, cracking, covering deformation and etc. problems may arise at later stages of tiling or during servicing life of the tiled areas. The substrate should be stable in order to prevent problems originated from bonding failures of the adhesive on the substrate.



SUBSTRATE PREPARATION

SUBSTRATE CLEANLINESS

The substrate should be clean for a proper bonding of the adhesive.

Surfaces should be clean and free from dust, dirt, grease or any other contaminating barrier.

■ It is recommended to wash and clean up the surface with pressurized water.

Residues and stains on existing tiles can be cleaned by appropriate cleaning materials.

Subsequently hardened or polished surfaces and laitance (concrete and etc.) must be removed by

scabbling







PRIMING THE SUBSTRATE

Substrates with different formats may have different surface absorptivities (water permeability).

 Gypsum (board, pannel and plaster), wooden (board, pannel and OSB), cement (board, plaster and screed) based substrates have high surface absorptivity.

• Surface absorptivity for concrete substrate is very low, where glazed tiles or painted surfaces have almost any.

Surfaces with high absorptivity absorb the mixing water of the cementitous adhesive or other mortars very fast. Thus, the mortar loses out its mixing water and this will cause early but improper setting leading to weak adhesion and disbonding of the covering.

 To control surface absorptivity the surface should be wetted. If the surface absorbes the water fast (in 30-45 seconds), then the surface is segmented as high surface absorptive.

 Sealing with appropriate primers; the high absoptivity of surfaces should be reduced and balanced, where surface adhesion should be improved for impervious substrates with primers including thick fillings (thick fillings expand bonding surface)











When tiling during hot, windy and dry conditions, it is inevitable that the mortar will lose its mixing water very fast due to rapid evaporation. Prior to spreading the mortar on the substrate, wetting or damping will decrease substrate surface tempera-ture reasonably. For better performance, the sur-face should be sealed with appropriate primers.

■ Primers are liquid and can be applied easily on the surface with a roller or brush. The surface should be completely sealed in one or two coats, forming pinhole free film coat.

curing period may reinforce bonding problems.





FRESH SUBSTRATES

It should not be tiled onto new screed, plaster or concrete. Leave fresh substrate for at least 6 weeks to fully set, before substrate repairing, surface smoothening and tiling.





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