

THERMATEK®

Thermal Barriers

Instructions for fixing of Thermatek® Heat Resistant Terrace Tiles

- ✦ Ensure that the substrate is waterproof
- ✦ Make sure that the slope provided is adequate for quick water discharge.
- ✦ Prepare bed mortar mixture in the ratio of 1:9, cement to sand. Do not use very fine sand. The mixture should have some coarse grains also.
- ✦ Care should be taken to ensure that the bed mortar is properly mixed without lumps. Improper mixing leads to voids in the bed mortar, which might lead to cracking. The sand used should be free from silt and mud. The bed mortar should be compacted properly before tiles are laid. Improper compacting also leaves voids in the layer and is a cause for cracking of tiles. The thickness of the bed mortar should be 20 mm not less than 18 mm.
- ✦ THERMATEK® Tiles should be fixed on bed mortar just like mosaic tiles. Tiles may be laid with a gap of 2 mm between each other by using spacers. This gap will ensure proper filling of grout.
- ✦ Finely sieved sand to be mixed in the slurry used for fixing the tiles. (Sand :Cement :: 1:5) The mixture should not be very rich i.e. the proportion of cement should not be increased.
- ✦ The tile joints should be grouted with white cement and white marble powder mixed in the ratio 1:2
- ✦ One hand polish to be provided on the tiles for evening out the surface and proper sealing of tile joints.
- ✦ Polishing the surface will prevent dust collection and algae formation.

- ✦ For skirting purpose, each tile must be cut into two and the edges chamfered using diamond cutting machine. The tile should be embedded in the parapet wall at the brick level and finished off with proper plastering. Or proper cover (wata) should be prepared at the sides.
- ✦ Since THERMATEK® is a multi-layered tile, the mason should be instructed to handle it properly while laying. Hammering of tiles for leveling purpose should be done carefully. In case a tile cracks while leveling, the tile should be removed and used for skirting. Do not use cracked tiles while fixing. After completion of tiling (before polishing) cure the entire area by ponding water for one hour (twice a day) for at least 4 days. Ideally one week curing is recommended. Make sure the tiles do not dry up.
- ✦ Some of the tiles are likely to crack after fixing due to the inherent property of cement structures and heat generated by the bed mortar and cement slurry used for fixing the tiles. This is a normal occurrence and does not affect the performance and life of the tiles. Fill up any cracks appearing on tiles with THERMATEK® Heat Reflective paint paste and polish the surface as mentioned above.
- ✦ It is recommended not to use soft and porous materials as substrate. The compaction and air voids in these materials can cause cracks in the future.

For proper fixing instructions and guidance please contact us or our distributors.

*The tile laying process is available as a slide show on our website . Please download the same and ensure that the mason is instructed accordingly before commencing the work. In case of any doubt, please do not hesitate to contact us at **99620-27654** or **094261 17277**.*