

### Tiling — Cracked tiles on wood



#### What does it look like?

Tiles are cracked but are normally well adhered to the wooden substrate. The cracks are often in straight lines and if a tile is lifted, will follow board joints. Quite often a noticeable 'bounce' will be felt in the floor as it is walked upon.

#### What is the cause?

The cracking is caused by excessive deflection in the floor. If cracking is localised, it is most likely due to an unsupported board joint.

#### What is the remedy?

The floor needs to be reinforced to reduce deflection. The tiles and wooden boards should be removed and the floor stiffened as appropriate. A minimum of 18mm WBP plywood should be screwed to joists at 200-300mm intervals and all board joints supported by noggins. If there is still noticeable deflection in the floor, another layer of plywood or suitable tile backer board should be used. For extra reassurance a two-part adhesive such as **weber.set rapid plus** and **weber AD250** should be used to fix the tiles.

An alternative solution when tiles and boards are difficult to remove, and the floor height allows, is to prime with **weber PR360** and overlay with a minimum 10mm of **weber.floor flex** leveling compound. Once hardened, a two-part adhesive such as **weber.set rapid plus** and **weber AD250** should be used to fix the tiles.