

# Repairs to resin Floors

## Scope

This bulletin deals with the repairing of cracked Terrazzite floors. Cracks will occur if there is movement in the concrete substrate. Terrazzite will never just crack on its own accord. The Nuplex contractor should have put a K130 epoxy joint in the Terrazzite wherever there is a control joint, construction joint or crack in the concrete. There are a number of exhibited crack types:

- Single straight crack: usually following a control joint, or construction joint
- Jagged variable crack: A new crack has developed in the concrete.
- Multiple crack lines (parallel): the concrete slabs on each side of a construction joint are moving horizontally but in opposite directions
- Cracks near an installed joint: the expansion / movement that occurred exceeds the capability of the joint.

**Preparation for repair:** Ensure the reasons for failure are well understood and that there is agreement on the proposed repair. Some joints move so much that a repair can never be fully sure of success. Straight lines are marked outside the boundaries of the cracked area. Remove the Terrazzite completely from the area between these lines. These lines must be very carefully cut; straight and true. The appearance of the repair will depend on this. Carefully grind the concrete to expose the crack(s) in the concrete.

**Installation:** Install a slip tape (often 25mm PVC or masking tape) directly over the crack. Prime the area with STZ primer. Fiberglass the area with Terrazzite resin and 600 gsm fibreglass chopped strand matt. Various options:

1. Install Terrazzite (to the right colour and aggregates) in this area. Once cured, immediately cut a 6mm joint along the line where the cracks were. Wait a minimum of 24hrs and then fill with K130.
2. Install brass (or other) metal angles on either side of the crack. Install Terrazzite and then fill between the metal angles with K130.
3. For wide jagged cracks, install two K130 joints on either side of the crack area (with or without metal angles) and infill in-between with Terrazzite.

In all cases, consider the colour to be used. A contrast colour may be more appropriate than trying to match the existing. NB: high movement joints may need a flexible joint instead of the k130. Use Elastothane 230.

Carefully grind the area to a polished state; seal with two coats of crystal seal and then the full polish system.

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