Renzo® Vanguard Installation Guide

Adhesive with Mechanical Fix

Applicable Substrates: Concrete (including exposed aggregate), Asphalt, Masonry, Stone, Timber

Advantages:

- 8 point mechanical fixing plus butyl adhesive
- Suitable for external application
- Applicable to almost any substrate
- Instantly trafficable

Disadvantages:

- Must be applied in dry conditions. Substrates cannot have any moisture present.

Tool Requirements:

- **Drilling** (not required for timber): SDS rotary hammer drill fitted with on-tool dust extraction. Use either hollow drill bits connected to an M or H class extractor, or a drill-mounted extraction attachment.
- **Surface preparation:** angle grinder with diamond cup wheel and dust shroud connected to an M or H class extractor, broom (power broom recommended), blow torch (for drying, where required).
- **Fixing:** cordless screwdriver, hammer, tape measure.
- **Consumables:** 6mm masonry drill bits, 10 gauge x 1.5 inch (38mm) screws, red star plugs (6mm), polyurethane adhesive.
- **Safety:** safety management equipment and personal protective equipment, including a P2 respirator.

Substrate Preparation: (IMPORTANT)

1. The substrate must be clean, dry and free of dust, grease and loose material, and must have had sufficient time to cure (minimum 5 days for concrete paving, minimum 12 hours for asphalt). **Never** install onto a wet or damp surface. Where required, a blow torch may be used to dry the area prior to application. Rectify any existing damage before installing.

Substrate Preparation: (continued)

2. Coarse or uneven surfaces such as exposed aggregate **MUST** be lightly ground with a diamond cup wheel to take off the high points and leave a flat, even bed for the tile. Only grind enough to flatten the surface.* (Figure 1)
3. Do not install TGSIs across expansion or construction joints. Cut the tiles so they finish on either side of the joint. TGSIs may be installed across control joints, provided the joint is level and narrow. Where a control joint is wide or uneven, fill it with a good quality polyurethane adhesive before installing.
4. Sweep away all dust and loose material. A power broom is recommended.

Mark Out and Layout:

Identify the area to be covered by TGSIs in accordance with AS 1428.4.1:2021. Warning TGSIs must sit 300mm (±10mm) from the hazard. Dry lay the tiles to confirm the layout before peeling any backing.

Installation:

1. Complete "Substrate Preparation" as defined above. **(IMPORTANT)**
2. Complete "Mark Out and Layout" as defined above.
3. Peel the backing from the underside of the tile to expose the butyl adhesive.
4. Place the TGSI into position and press down firmly across the whole tile.
5. **Concrete, asphalt, masonry and stone:** Drill through each of the 8 fixing points into the substrate using a 6mm masonry drill bit and on-tool dust extraction. (Figures 2 and 3) Insert a red star plug into each hole, then drive a 10 gauge x 1.5 inch screw through each fixing point until the head sits flush with the tile. (Figure 4)
6. **Timber:** No drilling or plugs required. Drive a 10 gauge x 1.5 inch screw through each of the 8 fixing points directly into the substrate until the head sits flush with the tile. (Figures 2 and 3)
7. Instantly trafficable. Remove safety management equipment once every screw is fixed.

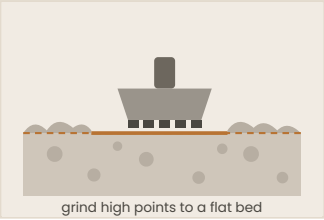

Figure 1 - Substrate Preparation (diamond cup wheel)

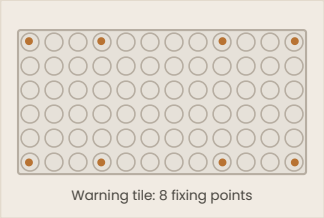

Figure 2 - Steps 5 and 6 (warning)

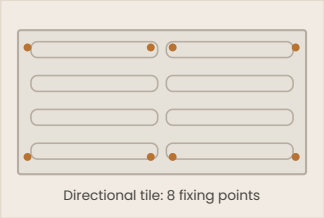

Figure 3 - Steps 5 and 6 (directional)

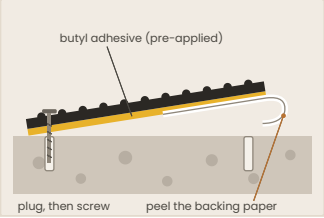

Figure 4 - Section view (peel the backing, then plug and screw)

** Grinding creates silica dust. Always use on-tool dust extraction and a P2 respirator.*

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