

INSTALLATION INSTRUCTIONS

QUARTZ SHIELD®

Commercial 1-2mm Matrix System

Coverage rates may vary depending on the porosity of the substrate.

1 Preparation

- Ensure the concrete is sufficiently cured to the recommended minimum of 28 days from completion.
- Diamond grind the substrate. The surfaces must be clean and dry, free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil, and grease, etc. This must be completed by diamond grinding or a suitable cleaning method.
- To check that all traces of oil and other contaminants have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease-free.
- If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.
- Substrate compression strength should be at least 25MPa, cohesive bond strength at least 1.5MPa and moisture content below 4%.
- Repair and fill cracks with EPO100EP Epoxy Putty or APC Concrete Repair Kit.

The surface must be dry before the application of the product. Acid or wet etching is not recommended.

2 Prime Coat

- Apply a prime coat of EPO-HI® GP Tinted Epoxy at a rate of 6m²/L, 10% of APC Thinners is recommended depending on the substrate.
- Leave to cure for approximately 24 hours or until touch dry.

If applying a second coat of epoxy more than 72 hours after the prime coat, lightly sand the existing coat prior to application.

3 Base Coat & Quartz Shield® Broadcast

- Apply a second coat of EPO-HI® GP Tinted Epoxy at a rate of 4-6m²/L, 10% of APC Thinners is recommended depending on the substrate.
- While the coating is still wet and wearing spiked shoes, broadcast the Quartz Shield until refusal, ensuring the entire floor has dry quartz showing.
- **Coverage Rate:** Quartz Shield® 25 - 15-20m²/bag
- **Coverage Rate:** Quartz Shield® 40 - 20-25m²/bag
- Leave to cure for approximately 24 hours or until touch dry.

Do not walk over the surface after Quartz Shield® has been broadcasted onto the wet base coat. This application is based on a full broadcast of Quartz Shield®.



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4 Entrapment Coat

- Broom the surface to knock off any sharp Quartz Shield®.
- Use a garden blower or vacuum to remove excess and unbound Quartz Shield® from the surface.
- Apply the entrapment coat of EPO-HI® GP Clear Epoxy with 20% APC Thinners at a rate of 2-3m²/L.
- Leave to cure for approximately 24 hours or until touch dry.

The Top Coat must be applied within the recoat window of 72 hours.

5 Top Coat

- Apply the top coat of EPO-HI® GP Clear Epoxy with 20% APC Thinners at a rate of 6m²/L.
- Leave to cure for approximately 24 hours or until touch dry.
- Full chemical cure in 7 days.

Independent slip testing is to be conducted after application to provide certified documentation that the coating meets or exceeds the required slip rating.

Quartz Shield® is not suitable for areas with excessive cracking or movement.

