



INSTALLATION INSTRUCTIONS

2-4MM MATRIX SYSTEM

High Build Epoxy 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

Optional - 50mm Epoxy Mortar Coving

- Prime the surface that will be coved, using mixed EPO100C® Clear Epoxy.
- Add 1 × 20kg bag of -600 Silica Sand or equivalent per 1.5L of mixed EPO100C® Clear Epoxy. Mix thoroughly with a drill mixer.
- Empty the mortar mix against the wall and use a coving tool of the required radius. Apply pressure while moving the tool along the wall and forming a coved edge. You may have to repeat this process until the cove is adequately formed.
- When using a coving tool, use a small amount of APC Thinners on the surface to prevent the coving mix from sticking to the tool.
- Shake excess thinners off before using the tool, as too much thinners in the mortar will slow cure rates and weaken the mortar mix.

3

Prime Coat

- Apply a prime coat of EPO100T® 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.



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4 Flood Coat & Sand Broadcast

- Apply a second coat of EPO100T® Tinted Epoxy at a rate of 1m²/L, 5% of APC Thinners is recommended depending on the substrate.
- While the coating is still wet and wearing spiked shoes, broadcast Silica Sand until refusal, ensuring the entire floor has dry sand showing.
- Full Broadcast: 6-8m²/20kg bag.
- Using -1 + 250 Silica Sand/equivalent is expected to meet P4-P5 slip ratings.
- Leave to cure for approximately 24 hours or until touch dry.

Do not walk over sanded areas after the broadcast.

The entrapment coat must be applied within 72 hours after the sand broadcast.

5 Entrapment Coat

- Remove excess and unbound sand using a broom and vacuum.
- Apply an entrapment coat of EPO100T® Tinted Epoxy at a rate of 4m²/L, using up to 10% of APC Thinners.
- Do not allow the epoxy to pool, as this will result in an uneven texture.
- 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.

