

PERMAFYX W685

THIN-LAY CONCRETE RESURFACING



PermaFyx W685 is a thin-lay concrete resurfacer which provides a new wearing surface for old, worn concrete that is strong, durable, abrasion resistant and resistant to weathering such as freeze-thaw. PermaFyx W685 offers a huge reduction in downtime as it can be opened to traffic after 3 hours instead of leaving a new concrete slab 28 days. There are also large environmental benefits, removing the impact of breakout and disposal of a concrete slab. PermaFyx W685 reinstates the surface texture of concrete surfaces to provide a slip resistant surface.



FEATURES:

- Provides a new wearing surface
- Reinstates surface texture
- Can be opened to heavy traffic in 3 hours
- Excellent resistance to freeze/thaw
- Extremely durable

BENEFITS:

- Removes need to relay whole concrete slab
- Increased slip resistance
- Minimal downtime
- No weathering issues
- Long-term solution



Grey



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PREPARATION:

The application surface should be sound, dry and clean, free from grease, oil, rust, scale, dirt, or any other soiling that might affect adhesion or performance. For best results, the surface should be prepared by mechanical grinding to provide a better key for the product to adhere to. We also recommend the **LazerVac system** to effectively remove all dirt and loose material before application. If the substrate is highly absorptive or porous, then the application area should be brought to a saturated surface dry (SSD) condition.

If there are any deep voids or areas over 10mm deep, these should be filled beforehand with **HardMaster W675** or **HardMaster W672**. Cracks and joints cannot be filled with PermaFyx W685, we recommend these are cut and filled with **UltraCrack L275** Flexible Joint Filler prior to the application of PermaFyx W685.

Once the area is dry, tape out the area with **Meon Gaffer Tape**, also taping over any cracks/joints. A piece of card or similar disposable material should be taped onto one edge for pulling off excess material.

MIXING:

PermaFyx W685 is mixed at a ratio of 6 litres liquid polymer per 27.2kg powder. Pour the liquid component into a suitable mixing bucket. Add the 27.2kg bag of powder whilst mixing with a suitable mixing drill. Continue mixing for 2-3 minutes until the mix is of a smooth consistency and there are no lumps. Make sure any material on the sides of the bucket/mixer are scraped into the mix.

APPLICATION:

PermaFyx W685 must be applied by trained installers. The application conditions should be dry and between 5 - 30°C. It is important to use a flat blade squeegee with a rounded or chamfered edge for a successful application.

BASE LAYER (if applying 2 layers):

Pour PermaFyx W685 onto the application area and spread out as thin as possible using a flat bladed rubber squeegee, filling any defects and leaving a smooth surface for the second layer. The top layer can be applied after approximately 30 minutes once the base layer has reached initial set.

TOP LAYER:

Pour PermaFyx W685 onto the application area and spread out as thin as possible using a flat bladed rubber squeegee. Immediately pull a brush over the surface to create a brushed finish. We recommend using a concrete finishing broom for this.

Remove the tape before the material reaches initial set.

AFTERCARE AND MAINTENANCE:

Use water to clean uncured PermaFyx W685 from tools and equipment. Ensure all tools and equipment is cleaned immediately after use.

TECHNICAL:

PERFORMANCE DATA:

| | |
|--------------------------------------|------------------------|
| POLYMER ADDITION (per 27.2kg) | 5.5 - 6.0 litres |
| SHRINKAGE | Less than 0.028% |
| DENSITY | 2263 kg/m ³ |
| TENSILE STRENGTH | |
| 3 hours | 5.9 N/mm ² |
| 1 day | 9.3 N/mm ² |
| COMPRESSIVE STRENGTH | |
| 3 hours | 21.8 N/mm ² |
| 1 day | 51 N/mm ² |
| 7 days | 62.1 N/mm ² |
| 28 days | 70 N/mm ² |
| FLEXURAL STRENGTH | |
| 1 day | 9.3 N/mm ² |
| 28 days | 11.7 N/mm ² |

The above figures are derived from laboratory testing at 22°C.

| TYPICAL COVERAGE: | kg per m ² | m ² per kit |
|-------------------|-----------------------|------------------------|
| PER LAYER | 2.6kg | 12.5m ² |

NOTE: coverage will vary largely depending on substrate condition

CURING:

| POT LIFE: | INITIAL SET: | TRAFFIC TIME: |
|---|---------------|---------------|
| 20 minutes | 20-30 minutes | 3 hours |
| Technical data @ 22°C and 65% relative humidity | | |

STORAGE AND PACKAGING:

STORAGE CONDITIONS:

Storage area should be dry, protected from direct sunlight and extremes of temperature - i.e. between 5 & 20°C.

SHELF LIFE:

12 months when stored under cover, in original unopened containers, in accordance with Storage Condition guidelines listed above.

SIZES AVAILABLE:

Supplied in 27.2kg powder bags and 6 litre polymer drums.

HEALTH AND SAFETY:

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when using cementitious products. Protect hands and eyes. In case of contact with eyes consult a doctor. Familiarise yourself with the material safety data sheets before using this product. If you need a copy please call our technical team on **023 9220 0606**.

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