



RX-PROTADECK

The quick-curing, seamless trafficable waterproofing solution.

ROBEX

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What is RX-Protadeck?

Our fast track waterproofing system, offers a high-performance solution that protects concrete, timber, masonry and steel structures from deterioration by water and chloride ions. It is an applied protective coating membrane and is designed as a water and chemical resistant coating with added abrasion resistance.

RX-Protadeck can be applied to virtually any surface, including horizontal and vertical substrate, to form a tough abrasion resistant membrane that is durable enough to accommodate most normal movement contained within structures of all types.

Material specification

1. **Primer** is used to penetrate and seal the substrate, giving a strong, intimate bond between the Deck and the RX-Protadeck.
2. **Glass fibre membrane:** Used to aid in facilitating movement & deflection.
3. **RX-Protadeck:** is a 1.8mm high performance resin membrane ensuring 100% effective waterproofing.
4. **Aggregate wearing coat** is a durable aggregate which is broad cast to provide a safe, effective, hard-wearing surface.
5. **The sealer** can be clear or coloured. It encapsulates the aggregate, helping maintain a clean surface and providing an aesthetically pleasing finish.



Example of versatile uses

1. **Planters**
Waterproofed using RX-Protadeck at 1.5mm.
2. **Rooftop gardens**
Waterproofed using RX-Protadeck at 1.5mm.
3. **Flat roof areas**
Waterproofed using RX-Protadeck at 1.5mm

Some of the key advantages of using both the RX-Protadeck & RX-Protaseal systems

- **Rapid application and curing** - areas can be returned to service in under 20 minutes.
- **Rapid spray-applied and cure** - ideal system for fast track construction and short possession work.
- **100% effective waterproofing** based on technically advanced products.
- **Weather tolerant** - applied in the widest range of climatic conditions and temperatures enabling all year round flexible programming.
- **Unsurpassed bond strength** - greater cohesive and adhesive bond strength to the substrate is the key to the System's durability.
- **Lightweight** - minimises dead load when compared to mastic asphalt.
- **Easy to repair** - remedial works can be carried out very effectively and quickly at all stages in the life of the system without any problems in terms of bond strength or time consuming preparatory work.
- Supported by a **10 year guarantee** and is not subject to maintenance.
- Can be steam cleaned and degreased.
- **Long service life** - with excellent resistance to ageing, UV, abrasion, weathering, de-icing salts, and chemical attack.

Technical Data

Physical properties of sprayed RX-Protadeck

| Property | Test Method | Result |
|--|---------------------|-------------------|
| Hardness | Shore A | 75-85 |
| Crack bridging | NFP 98 284-1 | >2.5mm@ -10°C |
| Tear strength | ASTM D4 12 | 40.0KN/m |
| Tensile strength | ASTM D4 12 | 10 Mpa. ±40 |
| Elongation at break | ASTM D4 12 | 380% ±40 |
| Abrasion resistance | DIN53516 | 150mm Max. |
| Taber abrasion | 1000g wt. H22 wheel | 125mg/1000 cycles |
| Pull off adhesion test - Dry concrete | BS EN 24624 | 3.8Mpa |
| Pull off adhesion test - Dry clay paviour | BS EN 24624 | 2.9Mpa |
| Pull off adhesion test - Steel | BS EN 24624 | 5.8Mpa |
| Pull off adhesion test - Asphalt | BS EN 24624 | 2.1Mpa |
| Not affected by asphalt overlays or thermo plastic lining applied at up to 250°C | | |

Physical properties of sprayed Protadeck

| Temperature (°C) | Elongation at break (%) | Tensile strength (Mpa) |
|------------------|-------------------------|------------------------|
| -10 | > 125 | > 33 |
| 0 | 180 | 21.4 |
| 10 | 220 | 17.8 |
| 20 | 290 | 9.3 |



Before



During preparation



After

Some of our clients:

SANDTON CITY
Shopping Center



Contact us

Get in touch with our team for any enquiries:

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