

**Rain Shield 1810** is a One Component acrylic co-polymer based flexible waterproofing system ideal for use on cementitious and metal surfaces. **Rain Shield 1810** is suitable for many waterproofing applications, such as swimming pools, balconies, bathrooms, wet areas, basements, roof water, roof waterproofing system in damp conditions, where other systems cannot be used, such as lift pits etc. It is also an ideal coating for external cementitious vertices. Surfaces where moisture protection and a colored finish is required.

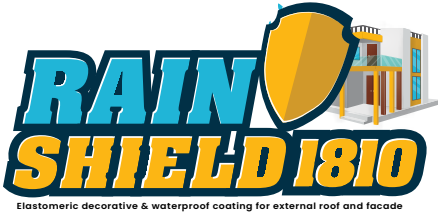
## TECHNICAL DATA

| Property                 | Test Method | Value                               |
|--------------------------|-------------|-------------------------------------|
| Component                | -           | Single                              |
| Form                     | -           | Viscous Paste                       |
| Color                    | -           | Different Colors                    |
| Specific Gravity         | ASTM D 1457 | 1.15 ± 0.02                         |
| Solid Contents           | ASTM D 1644 | 30% ± 3%                            |
| Drying Time              | -           | 40-50 minutes                       |
| Recoat Time              | -           | Minimum 2 Hours                     |
| Full Cure                | -           | Minimum 7 Days                      |
| Bond Strength            | ASTM D 4541 | > 0.5 N / mm <sup>2</sup> @ 28 Days |
| Initial water absorption | BS 1881 - 5 | > 90% reduction over control        |
| Crack bridging ability   | ASTM C 836  | No Crack at 1mm thickness           |
| Elongation               | ASTM D 415  | >100%                               |
| UV Resistance            | ASTM G 53   | No change in color after 300 hours  |

\*Typical results under laboratory conditions.

## ADVANTAGES

- ✓ Can be applied to freshly hardened concrete.
- ✓ Excellent elongation and flexibility.
- ✓ Exhibits crack bridging and sealing property.
- ✓ Protection against carbonation and chlorides.
- ✓ Excellent adhesion.
- ✓ Easy to apply.
- ✓ Increased frost and salt resistance.



## SURFACE PREPARATION

Surface should be cleaned and sound, free from dust, loose particles, grease, oil, primers, from Previous membrane systems or bitumen. Bitumen or primers should be removed by shot blasting or mechanical means. Spalled concrete should be repaired by cutting to sound Concrete and patching with Polymer modified mortars. There are a variety of repairing mortars and crack fillers available in Ressichem Patch and Crack Heal range for the repairing of a variety of different surfaces. It is recommended to use polymer coated tape (Construction Grade) at all critical areas such as intersections, corner joints, floor/wall junctions, gaps, peripheral areas, or pipelines before the application of **Rain Shield 1810**. Prior to fixing the polymer coated tape, gaps and corners should be filled and leveled with an appropriate polymer modified Grout from the Ressichem range of products.

## APPLICATION

Saturate the concrete surface with clean water. Apply the first coat while the surface is still damp with no free-standing water. Apply using a short stiff bristle brush or roller at a minimum thickness of 120 micron per coat. After 2-3 hours, apply the second coat in perpendicular direction to the first coat (If the first coat has been applied in top to bottom direction, the second coat should be applied in left to right direction and vice versa). Spray or trowel application is acceptable provided the mixing ratio is adjusted to achieve the right consistency.

## CURING

**Rain Shield 1810** should be protected from high wind, direct sunshine, and rain until fully cured.

## SHELF LIFE

Expiration of **Rain Shield 1810** is 12 months after production date under dry and sheltered conditions.

## PACK SIZE

**Rain Shield 1810** is available in 20 KG Buckets.

## HEALTH AND SAFETY

**Rain Shield 1810** is not regarded as hazardous for transportation. Do not reuse the packaging and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please refer to the MSDS of the product for further health and safety information.