



Dichtament® DS2

One Component Membrane Forming Waterproofing by Crystallization

Product Properties

- Imparts impermeability to water and dampness to coated surfaces
- Maintains the breathing properties of concrete
- vertical and inclined surfaces can be easily coated
- Easy application and suitable for various construction sites
- Can Seal Hairline Cracks
- Non-Toxic

Areas of Application

- Outstanding waterproof and damp proof coat for concrete structures, brick and masonry works, cement renders, plasters etc.
- Underground shafts and garages, retaining walls, tunnels, water tanks, roof slabs, sewers and basements etc.
- Resurfacing of bathrooms, cellar walls and floors exposed to dampness and attacks from moss and fungus
- Foundation walls and footings subjected to ground moisture, water and salt efflorescence can be well protected with coating of **Dichtament® DS2**

Application Notes

General

Dichtament® DS2 is a one component liquid applied membrane forming waterproofing system for concrete, brick, masonry or cement-bound surfaces. **Dichtament® DS2** is a hydraulically setting pulverised material modified with a polymer component, which produces outstanding waterproof surfaces. **Dichtament® DS2** waterproofing system works on the principle of waterproofing by crystallization and forms an integral part of cement substrates. The crystalline penetration takes place by osmosis and the treatment penetrates concrete even against hydrostatic pressure.

Surface Preparation

Damp and loose plaster, if any must be removed. All joints must be sound and properly filled. In case of any cracks they should be sealed. Please refer to our technical literature on **Crack Injections**. The surface to be treated must be structurally sound. It must be clean, free of all loose particles, oil, grease, efflorescence, traces of form oil curing compounds and any other previous treatments or contamination

Mixing ratio

Mixing ratio for **Dichtament® DS2** is 100 p.b.w. Powder to 26-30 p.b.w. water, i.e. 6 to 6.5 kg water is needed (as per consistency) per 30kg sack of **Dichtament® DS2**. The liquid component which is water should be taken in a bucket and the powder component slowly mixed in using mechanical stirrer, until a lump free, homogenous slurry is obtained. The mix can be applied with a trowel, brush or spray. Application at temperature below +5°C and on frozen surface should be avoided. Slightly dampen the surface prior to coating.

Coating

Dichtament® DS2 should be applied in two operations. The thickness of the coatings depends on conditions and requirements of the surface to be protected. A minimum coat thickness of 2 mm. is recommended, when **Dichtament® DS2** is directly subjected to water pressure. In case of sandwiched system the thickness of

Dichtament® DS2 can be between 1 to 2 mm depending upon actual site conditions. However, the maximum thickness should not exceed 6 mm. Subsequent coats may be applied when the previous coat is not completely dried out, subject to minimum of 1 hour. Care should be taken to protect the coating from being damaged during subsequent operations.

Curing and Protection

The coating of **Dichtament® DS2** must be cured by clean water to avoid rapid hardening. Protect from direct sunlight and extreme temperatures. Protective or decorative systems like tiles, wood panels etc. may only be applied when **Dichtament® DS2** has sufficiently hardened, at least after 7 days.

Coverage

The consumption (coverage) largely depends upon the application method, conditions, porosity, texture, type and general condition of the surface. The estimated approximate consumption for 2 coats would be

| Type | Coating Thickness | Approx. Consumption |
|--|-------------------|---------------------------------------|
| Sandwiched System Dichtament® DS2 under a Protective Layer | 1.0 to 2.0 mm | 2.0 to 4.0 kg Powder / m ² |
| Damp Surface and seepage water under normal conditions | 2 to 2.5mm | 4.0 to 5.0 kg Powder / m ² |
| Surface Subject to Very High Water Heads | 3.0 -3.5mm | 6.0 to 7.0 kg Powder / m ² |



Further Instructions / Precautions



Technical Data for Dichtament® DS2

| Characteristic | Unit | Value* | Comments |
|---|-----------------------|---------------------------|--|
| Color | | Grey Powder | |
| W/P Ratio | | 0.26-0.30 | |
| Flow on 300mmx300mmx6mm Glass @0.27 w/c Ratio | cm | ≥27 | As Per EN 445 Using Astm C 230 Mould (Measure of Spread Dia) |
| Mixed Density | Kg/L | 2 | |
| Untapped Bulk Density | Kg/L | 1.5 | ±0.2 |
| Workable Life @ 27°C | Hours | Greater Than 3 | IN HOUSE TEST |
| Sieve Passing Through 0.6 mm Sieve | % | 99-100% Passing | Grain Size:Maximum0.6-1mm |
| Sieve Passing Through 1.18mm Sieve | % | Compulsorily 100% Passing | |
| Flexural Strength | N/mm ² | 9.37 | EN1015-11-2019 |
| Tensile Strength | N/mm ² | 1.92 | ASTM C 307-2018 |
| Pull off Adhesion Strength | N/mm ² | 1.50 | ASTM D 7234-2021 |
| Water Vapour Trasmission | g/m ² .day | 12.1 | ASTM E96/96M-2022a |
| Depth of Water Penetration @2Bar | mm | Nil | EN 12390-8-2019 |
| Consumption @ 0.8mm DFT | Kg/m ² | 2 | For 2 Coats |
| @ 1mm DFT | Kg/m ² | 2.5 | |
| Full Cure | Days | 7 | |

Product Characteristics for Dichtament® DS2

| | |
|------------------------|---|
| Type of Product | Crystallization based Waterproofing Liquid Applied Membrane System |
| Form | Powder |
| Colour | Grey |
| Shelf Life | 6 Months from date of Manufacture |
| Delivery | Dichtament® DS2 - 30 kg sacks |
| Storage | In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost |
| Disposal | Empty packs completely and dispose off carefully to protect our Environment |

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

Note: - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.