



Dichtament® DS-flex

Flexible Crystalline waterproofing and protection slurry

Product Properties

- Coated surfaces are hydrophobic, impermeable to water, dampness, reduce the risk of efflorescence, moss and fungus growth.
- Protects the cementitious surfaces against freeze thaw cycles while still retaining properties of the substrate.
- Due to flexible and elastic properties of the system, the risk of cracks formation is minimized.
- System does not contain any solvents, due to which it is non-toxic
- The coating can easily be provided on vertical as well as horizontal surfaces
- Provides excellent adhesion to substrates, and is resistant to alkalis and UV- rays
- System, after curing provides a flexible and elastic, cracks bridging (at least 0.7 mm) and waterproof layer
- The coatings of possess good non-aging properties and abrasion resistance

Areas of Application

- Provides outstanding waterproofing & damp proofing to concrete, brick and masonry work, plaster, cement render etc
- Can be used in underground shafts, tunnels, roof slabs, bathrooms, basements, foundation walls, footings, retaining walls, etc
- Surfaces exposed to dampness, moisture as well as substrates subjected to moss and fungus can successfully be resurfaced
- Foundation walls, footings, retaining walls etc. subjected to ground moisture, water and salt efflorescence can be well protected

Application Notes

General

Dichtament® DS-flex is a flexible, hydraulically setting, two component waterproofing system for concrete, brickwork, masonry and all cement bound surfaces. **Dichtament® DS-flex-A** consists of a Crystalline powder base component and a polymer component **Dichtament® DS-flex-B** in liquid form. **Dichtament® DS-flex** system provides excellent waterproofing even under high water pressure (upto 7 bars) **Dichtament® DS-flex** possess high flexural and tensile strengths and thus elastic in nature. **Dichtament® DS-flex** system is free from chlorides and any other corrosive substances. The system has enhanced carbonation protection

Instructions for use

Surface Preparation

All loose materials, dirt, grease, oil, dust, mould release agents, etc. should be removed from the substrate to be treated. The substrate should have sufficient bonding strength, for example in case of concrete at least 1.5 N/mm² in order to achieve efficient and durable waterproofing layers. If the surface is very smooth, we advise to roughen by suitable methods for example by using wire, Brush or Similar Tools.

Mixing Instruction

The coating of **Dichtament® DS-flex** is to be started with a primer coat, which can be prepared at jobsite by adding 100 p.b.w. **Dichtament® DS-flex-A** powder to 50 p.b.w. **Dichtament® DS-flex-B** liquid and water to obtain a slurry. While mixing, first place the appropriate quantity of liquid in a clean container or a plastic bucket and then slowly add the powder. The mixing should preferable be done with a mechanical mixer or slow rotating paddle mixers (for example a drilling machine fitted with cement mixing paddle) until a pasty and homogenous mix is achieved. The primer coat should be of a brush able or sprayable consistency. The primer coat should cover all the surface to be

treated especially edges and corners. After about 30 min of application of primer coat, apply one coat of **Dichtament® DS-flex** mixed in the ratio:100 p.b.w. **Dichtament® DS-flex-A** powder + 50 p.b.w. **Dichtament® DS-flex-B** Polymer.

The mixing process is same as described earlier but consistency should be thicker. If the surface is subjected to water pressure, we suggest a second coat to enhance the waterproofing properties. The waiting time between first coat and the second is at least three hours at 20°C but care should be taken that the previous coat is not completely dried out. For moist and damp surfaces about 1 to 2 mm thickness of **Dichtament® DS-flex** coat is sufficient, whereas for substrates subjected to high water pressures we recommend 2 to 3 mm thicknesses

Application

Dichtament® DS-flex system is generally applied at +10°C to +30°C surface temperature. **Dichtament® DS-flex** should not be applied below +5°C. The mixed **Dichtament® DS-flex** has about 30 minutes potlife at about 20°C to 23°C. Higher temperatures reduce this time and lower temperatures increase the potlife.

Curing and Protection

Dichtament® DS-flex coatings are self-curing, but should be protected from direct sunlight, moisture, rain, frost etc. It is recommended that any protective decorative systems like tiles, wooden panels, plastics boards etc. be fixed only after **Dichtament® DS-flex** coating is sufficiently hardened, at least after 7 days. Care should be taken that the layer of **Dichtament® DS-flex** is not damaged during subsequent operations. Small damages can be retouched easily before subsequent operations.



Technical Data for Dichtament® DS-flex

Characteristic	Unit	Value*	Comments
Density	Kg/cm ³	1.70	
Mixing ratio	P.b.w	2 :1	Powder : Liquid
Crack bridging Capacity	mm	0.5	Value is maximum width of crack
Resistance to Water Pressure	Bars	Up to 7	DIN 1048
Dynamic modulus of Elasticity	N/mm ²	5.1 x10 ³	28 days, 20°C & 65% RH
Pot life	Minutes	30	At + 20°C
Application temperature	°C	+5° to + 30°	
Consumption	Kg/ m ² / mm	1.70	
Elongation	%	≈ 45	

Product Characteristics for Dichtament® DS-flex

Type of Product	Flexible waterproofing slurry
Form	Dichtament DS-flex-A: Crystalline Powder Dichtament DS-flex-B: Liquid
Colour	Dichtament DS-flex-A: Grey Dichtament DS-flex-B: Whitish
Shelf Life	6 months from date of Manufacture
Delivery	Dichtament DS-flex-A: 20 kg sacks Dichtament DS-flex-B (5kg X 2) 10kg
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.

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