Dichtament DS-flex

Flexible waterproofing system

Product properties

- Two component flexible hydraulically setting slurry, solvent free
- Crack bridging characteristics
- Impermeable to water and dampness
- Reduce the risk of efflorescence, moss & fungus growth
- Risk of crack formation is minimized due to flexible and elastic properties
- Non Toxic
- Resistant to alkalis & U.V. Rays
- Possess good non-aging properties and abrasion resistance

Areas of application

- Provides outstanding waterproofing & damp proofing to concrete , brick and masonry work, plastics, cement rendering etc.
- Can be used in underground shafts, tunnels, roof slabs, bathrooms, basements, foundation walls, footings, retaining walls etc.
- Surfaces exposed to dampness to dampness and 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

Dichtament DS-flex is a flexible, hydraulically setting, two component waterproofing system for concrete, brickwork, masonry and all cement bond surfaces. **Dichtament DS-flex** consists of a powder base substance (component A) and a polymer component **Emceflex 30** in liquid form (component B) **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.

Advantages

Dichtament DS-flex possesses high flexural and tensile strengths and thus elastic in nature. The system is free from chlorides and any other corrosive substances and has enhanced carbonation protection

Instructions for use

All loose materials, dirt, grease, oil dust etc., should be removed from the substrate to be treated with **Dichtament DS-flex.** The base surface should have sufficient bonding strength, for example in case of concrete at least 1.5 N/mm^2 in order to achieve efficient and durable waterproofing layers. If the surface is very smooth, we advise to roughen by suitable method for example by wire brush or similar tools. Before application of **Dichtament DS-flex,** make sure that the surface is structurally sound, free from traces of Mould Release Agents, curing compounds or similar contaminations.
The coatings of **Dichtament DS-flex** is to be started with a primer coat, which can be prepared at jobsite by mixing the A and B components at following approximate ratios:
100 p.b.w **Dichtament DS-flex** powder (A) +50 pbw polymer **Emceflex 30** (B) + water to obtain slurry.
While mixing please ensure to first place the appropriate quantity of liquid in a clean container or a plastic bucket and then add slowly powder and not in reverse. The mixing should preferable be done with an electric stirrer right from the time the polymer dosage to the mix until a pasty and homogenous mix is achieved. The consistency of the mix can be adjusted slightly by adjusting the polymer dosage or water to increase or decrease as to get brushing or spraying or trowelling grades.
The primer coat should possibly be of a brushing or spraying consistency. The primer coat should cover all the surface to be treated with **Dichtament DS-flex** system, especially edges and corners. After application of primer coat in about 30 min apply one coat of **Dichtament DS-flex** consisting of approximate ratios: 100 pbw **Dichtament DS-flex** powder +50 pbw Polymer **Emceflex 30**.
Dichtament DS-flex system is generally applied at +10°C + 30°C surface temperature. Application at below +5°C should in every case be avoided. The mixed **Dichtament DS-flex** (component A and B) has about 30 min pot life**.**
Dichtament DS-flex coatings should be protected until curing from direct sunlight, moisture, rain frost etc. Any protective decorative systems like tiles, wooden panels, plastics boards etc. can 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 thereby damaged.
Dichtament DS-flex is supplied in two components (component A powder and component B polymer liquid) in separate packing. They should be stored in a dry place at room temperatures in original packing. The polymer (component B) is sensitive to frost, hence in every case is to be stored above +5°C shelf life powder about 9 months and polymer component about 6 months.

The crack bridging capacity is about 0.7 mm width of cracks at 1.0 mm thickness and has a resistance of water pressure up to 7 bars. The dynamic modulus of elasticity is 6.3 x 10 N/mm² (at 28 days 20°C / 65% RH)

Technical Data for Dichtament DS-flex			
Characteristic	**Unit**	**Value**	**Comments**
Density	kg / cm³	1.70	after mixing
Mixing ratio	water : powder	2 : 1	
Pot life	minutes	30	
Minimum application temperature	° C	+ 10° to + 30°	
Consumption	kg / m²	1.70	approx

Product Characteristics for Dichtament DS-flex	
Colour	powder - grey , liquid – white
Shelf life	9 months
Delivery	powder - 30 Kg Sacks , liquid – 30 kg pails
Storage	Protect from heat and frost
Disposal	Packs must be emptied completely.