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BETTOSEAL FLEX SUPER

Cement and Polymer Dispersion Based, UV Resistant Two Component Super Flexible Waterproofing Material

MATERIAL DESCRIPTION

BETTOSEAL FLEX SUPER is a cement and polymer dispersion based, UV resistant, super flexible waterproofing material designed for all kinds of reinforced concrete and cement based plasters.

AREAS OF USE

- Indoors - outdoors, vertically and horizontally from the direction of water,
- In prefabricated concrete stream insulation,
- On terraces, it can be left open under light load,
- From the direction of the water in the foundation insulation,
- In reinforced concrete structures that are planned to deflect,
- In wet areas such as WC, bathroom, kitchen and balcony,
- Olympic swimming pools and thermal pools,
- Ornamental pools (Can be colored with special pigment)
- In the seawater canals,
- Where waterproofing and protection against salt water is required,
- Protection of concrete surfaces against carbonation and chlorine attacks,

ADVANTAGES

- 1 mm dry thickness of **BETTOSEAL FLEX SUPER** provides protection against carbonation equal to 80 mm of concrete thickness
- Waterproof, withstands water at 7 bar pressure
- The white color is highly UV resistant
- High durability, resistant to freeze - thaw cycles
- Resistant to carbon dioxide and chlorine in atmospheric conditions.
- While conventional waterproofing materials require a waiting period of 7 - 28 days on the concrete surface, **BETTOSEAL FLEX SUPER** can be applied on fresh concrete within 24 hours.

TECHNICAL SPECIFICATIONS

BETTOSEAL FLEX SUPER Component A	Mineral fillers, special cement, polymer
[illegible] Component B	Copolymer Acrylic Dispersion Polymer
Color	White
[illegible] Strength	≥ 1.0 N/mm2
Pressurized Water Resistance	7 bar (positive) at 2 mm dry film thickness
[illegible] Water Vapor Permeability	Class I Max.
Carbon Dioxide Permeability	> 50 m
[illegible] Permeability Coefficient	0.1 kg/m2 h0.5
Applicable Floor Temperature	+5°C +25°C
[illegible] Temperature	-20°C +80°C
Fresh Mix Use Time	2 hours
[illegible] Strength	2 day (Mechanical Strength)
Use Readiness Time	7 days (Water Impermeability)
[illegible] Strength	3 day (Plaster or Ceramic)
Use Readiness Time	
Covering	

Note: The above values are given for +23°C and 50% relative humidity.

SURFACE PREPARATION

The surface to be applied must be sound, free from any oil, grease, rust, paraffin, paint, bitumen residues that may prevent adhesion to the surface and all loose parts must be cleaned. Iron and wooden wedges on the surface should be removed and active water leaks, if any, gaps formed with **BETTOFIX,** uneven surfaces and corner edges should be repaired with **BETTOCRETE** mortar with a radius of at least 4 cm. The surface should be wetted with water before application, but ponding should not be allowed. If the coating material loses water immediately during application and becomes dull, it is understood that the surface has not been wetted sufficiently or has dried fast. In such cases where the weather is hot or the materials are exposed to wind, add 10% of the B component water into the mixed material for the first coat only.

MIXING

Pour 60% (6 KG) of **BETTOSEAL FLEX SUPER** 10KG B component into a clean mixing bucket. Add powder component A slowly in three parts and mix with a 400-600 rpm mixing mixer. Add the remaining 40% (4 KG) of B component to this mixture and continue mixing.
CAUTION: WITH THIS METHOD, THE POLYMER CHAINS IN THE POWDER ARE CRUSHED AND A VERY HOMOGENEOUS, LUMP-FREE MIXTURE IS OBTAINED.

MIXTURE AMOUNT

BETTOSEAL FLEX SUPER Component A (powder) 20 kg **BETTOSEAL FLEX SUPER** Component B (liquid) 10 kg **Mixing density: 1.6 kg**

METHOD OF APPLICATION (Do not apply to dry concrete)

The prepared **BETTOSEAL FLEX SUPER** mixture is applied in two or three coats with the help of an insulation brush. The brush application direction in each coat should be perpendicular to each other. Waiting time between coats varies according to ambient conditions. Wet the concrete surfaces with clean water. They should be wetted until the moisture is visible, but puddles should not form. Apply with a short bristle brush or roller. If necessary, it can be plastered with a trowel. For 6-10 mm pits, pores, etc., the desired consistency can be obtained by using less mixing liquid. Where multiple coatings are required, apply the second coat after the previous coat has dried to obtain the desired thickness. In general, for recoating, it is recommended that each layer should be at least 1 mm thick. The spray application method is recommended for large areas. **Effect of Water Pressure**
BETTOSEAL FLEX SUPER provides a protective, waterproof coating. **BETTOSEAL FLEX SUPER** has demonstrated a resistance up to a pressure of 7 Bar (70 meters head water pressure). **The** degree of water resistance of **BETTOSEAL FLEX SUPER** under pressure depends on the thickness of the coating. These application rates are based on continuous water pressure conditions. The pressure application rate is 3 Bar' 4 $^{kg/m2}$, 7 Bar 6 $^{kg/m2}$.

PACKAGING

BETTOSEAL FLEX SUPER Component A 20 kg polyethylene reinforced kraft bag **BETTOSEAL FLEX SUPER** Component B 10 kg plastic drum.

EXPENDITURE

1. coat consumption 1.5 $^{kg/m2}$ mixture
2. coat consumption 1.5 $^{kg/m2}$ mixture
3. coat consumption 1.0 $^{kg/m2}$ mixture

SHELF LIFE

Under proper storage conditions, 1 year from the date of manufacture. **BETTOSEAL FLEX SUPER** Component B freezes at temperatures below 0°C. Opened packages should be tightly closed and stored under suitable storage conditions.

STORAGE

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out system. For long-term storage, pallets should not be stacked on top of each other.

SECURITY MEASURES

Application areas must be ventilated. During the application, work clothes, protective gloves, goggles and masks should be worn in accordance with Occupational Health and Safety rules. Due to the irritating effects of uncured materials, the components should not come into contact with the skin and eyes, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, Material Safety Data Sheet should be consulted.

RESPONSIBILITY

The data contained in this technical document are based on our scientific and practical knowledge. **BETTON Construction Chemicals San. ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BETTON Construction Chemicals San. ve Tic. Ltd. Şti. cannot be held responsible** for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product**. Ltd. Şti.** cannot be held responsible.

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BETTOSEAL FLEX SUPER
Dual Component Super Flexible Waterproofing Material
Coating Application 1.3/2.2/5.1/8.2
(Cement and Polymer Based, UV Resistant, Two Component Super Flexible)

Carbon Dioxide Permeability	> 50 m
Water Vapor Permeability	CLASS I
Capillary Water Absorption and Water Permeability	Max. 0.1 kg/m2.h0.5
Pulling and Snapping	Horizontal without traffic load ≥ 1.0 (0.7)b
Reaction to Fire	C,s1,d0
Dangerous Goods	In accordance with Article 5.3

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