

GENERAL DESCRIPTION

IZOFLEX 7000 is a two components, highly flexible polymer modified cementitious waterproofing coating that requires only mixing to form the ideal waterproofing surface. Component A is a mortar based on mixture of cement, sand, additives. Once applied and cured **IZOFLEX 7000** provide non toxic, highly flexible and waterproof coating with a very high adhesion on the common substrates used in construction such as concrete, natural and artificial stone, bricks, concrete blocks, etc. The adhesion and sealing qualities are outstanding. Therefore, it can be used for positive or negative hydrostatic pressures. The material prevents reinforcements from corrosion.

ADVANTAGES

- Easily to apply by brush, roller, or by spray or trowel. It resists UV radiation
- Provides a fully-flexible coating which ensures complete waterproofing even in the most severe conditions, as high negative hydrostatic pressure.
- A fully cured membrane of 1 to 2mm thickness is vapor permeable and allows the substrates to breath.
- Excellent protection for concrete, being a CO₂ and chloride (Cl-) barrier and thereby preventing carbonation and electrochemical corrosion.
- Resists the negative hydrostatic pressure from ground water when it is used in underground interior applications.
- Environmentally friendly, long lasting compared to other coating, avoiding maintenance cost.
- Non toxic and chloride free, suitable for contact with potable water.
- Bonding well to damp substrated without priming.
- Excellent bonding strength of porous and non-porous surface.

SCOPE OF USE

IZOFLEX 7000 is used for waterproofing of water containment structures, exterior basements, wall, balconies, kitchen, bathrooms, under tuile floors, ground, sewage treatment plants, swimming pools, foundations, water tank, exposed and decoupled roofs, sealing and backing to marble, granite and stone cladding to prevent water ingress, to protect from carbonation and chloride attack, etc.

MIXING

IZOFLEX 7000 having two components part A

waterproof powder and part B liquid acrylic co-polymers both products can be mixed at the job site.

- Pour the entire liquid polymer component into a clean container and add powder component gradually while mixing with a low speed mixing with the speed of 400-600 rpm stirrer until a lump free mass is achieved.
- Minimum 2-3 minutes are required for stirrer until a uniform consistency is achieved.
- Do not add water and keep liquid/powder ratio as the package supplied.
- Depending on existing temperature and relative humidity, pot life expected will be between 30 minutes and 1 hour

CONSUMPTION

Per layer, achieving **IZOFLEX 7000** is applied in two layers of approximately of 1.0 to 1.5kg/m² consumption depends on porosity and texture of the total consumption of 2.0-3.0kg/m² surface, a preliminary test on site is recommended to determine consumption exactly.

APPLICATION

IZOFLEX 7000 is suitable for smooth concrete, screed, asphalt, plaster, gypsum board and masonry surface etc.

it can be applied by a soft brush, roller and spray or by trowel when smooth finish is required.

- Minimum two coats are recommended, the period of re-coating interval is after the first coat is completely dry.
- The second coat must be applied perpendicular to the first coat, to achieve complete waterproofing.
- For large area **IZOFLEX 7000** can be also sprayed, being the recommended nozzle size of 3-4mm and spraying pressure between 3.5 and 5.0 bars. When sprayed, it is recommended to finish the fresh layer with a broom in order to make sure that the whole surface is covered completely.
- Minimum two coats are recommended, the period of re-coating interval after first coat are completely dried.
- The second coat must be applied perpendicular to the first coat, to be achieving complete waterproofing.
- For concrete joints and cracks have been repaired and sealed. **IZOFLEX 7000** will be ap-

plied with a fiber mesh 40-60g/m², place the mesh on the first layer of **IZOFLEX 7000**

CLEANING

All the tools must be cleaned with water after use. Once it cures, material can only be removed by mechanical methods.

IMPORTANT INDICATIONS

- Do not add water, sand, cement, additives or any other component that may lead to damage of the product quality
- Do not apply on dusty, frozen surfaces
- Do not apply on humid area or during bad weather like possibility of raining
- Do not apply on surface which is not specified in this technical data sheet, or consult our technical department.

SHELF LIFE

Powder component: approx 12 months
Liquid component: approx 12 months

HEALTH AND SAFETY

Toxicity: non toxic and odorless

Flammability: its completely water-based non flammable when wet. the cured membrane film will not be burned and also its not a fire hazard.

Skin contact: Avoid contact with skin and eyes. In case of contact with eyes and skin wash immediately with tap water and soap.

Eye contact: In case of eye contact, rinse thoroughly with clean water but do not rub. if irritation continues consult a doctor.

TECHNICAL CHARACTERISTICS

Name of test	Result	Test method
Component A	Powder form	
Component B	Milky white liquid	
Color	Grey/white	
Density of component A	1.45	
Density of component B	1.05	
Mixed density of component A+B	1.65	
Application temperature	+5°C to 60°C	
Water permeability @5bars	Nil	BS EN 12390
Water vapor transmission	0.02g/m ² at 28 days	ASTM E 96
Adhesion to concrete	2.0N/mm ² at 28 days	ASTM D 4541
Adhesion to steel panel	1.75N/mm ²	
Tensile strength	1.2N/mm ²	ASTM D 412
Elongation at break	>130%	ASTM D 412
Resistance to CO2 Diffusion	DcO2=0.43*10m/s R=346m (R>50m)	
Resistance to water vapor diffusion	dH2O=0.131*10m/s S=1.9m	

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that

this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

The above shown technical data are results obtained in laboratory and extra data can be provided upon request.

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