

MONNELI KRETESIL FLEX

Elastomeric Additive for KRETESIL

Product Description

A product composed of water based synthetic elastomer to be mixed with KRETESIL. This additive provides the mix with flexibility and waterproofing characteristics. Therefore, the coating will absorb possible support deformations, minor cracks, will have higher resistance against abrasion and will strongly adhere to the surface.

Uses

KRETESIL FLEX is used to be mixed with KRETESIL in order to increase the adhesion power to the support (especially in the first coat) and to provide flexible waterproofing coating to concrete supports and block work against humidity, cellar water and against stagnant waters.

- Swimming pools
- Reservoirs
- Purification plants dams
- Foundation wall
- Plinths
- Prefabricated cisterns
- Canals concrete pipes
- Water tanks
- Harbours

Waterproof structures with negative pressure such as:

- Galleries
- Humid rooms
- Elevator shafts
- Basements
- Tunnels
- Inspection pits
- Retaining walls
- Lift shafts
- Bridge decks

Advantages

- Flexible and can absorb minor deformations
- Used for internal and external applications
- Used for positive and negative pressure
- Excellent bond to concrete and block work
- Easy to apply by brush or spatula
- Non-toxic

Instructions for Use

Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Moss and lichen must be removed physically followed by treatment with fungicidal wash. After treatment, it must be washed down thoroughly with clean water.

In addition, make sure that all surfaces must be damp but not totally wet before progressing the work.

Mixing

Mix one 25 kg bag of KRETESIL with 5-5.5 Liters of KRETESIL FLEX for applications with spatula and with about 6 Liters for brush applications.

Use a mechanical mixer at low number of turns. Mix till obtaining a homogeneous mixture free from lumps. Let the mixture rest for about 5 minutes, and remix again shortly before application.

Application

KRETESIL mix can be applied with a brush or with spatula, for application with a brush, 2 coats are required. Before the second coat is applied make sure that the first one has hardened which generally takes place after about 5 – 6 hours according to the temperature and the porosity of the support, but do not exceed 24 hours.

Cleaning

Clean the tools immediately after use with clean water. During work, it is recommended to place the tools in water while not in use.

Recommendations

KRETESIL mixed with KRETESIL FLEX forms a cementitious product, so all the precautions for concrete practice must be followed

- During windy or sunny days, damp the surface to avoid the rapid evaporation of water
- Do not apply at a temperature below to +5°C.
- Allow concrete supports to cure for 28 days
- Cannot be used on substrate with possible moving cracks.
- The maximum thickness to be applied is 1 mm per coat, with both spatula or brush.
- Do not apply excessive thickness to avoid possible cracks appearance.

Consumption

2.0 kg of KRETESIL mix per 1m² depending on the surface roughness and porosity.

Packaging

KRETESIL FLEX supplied in 20 Liter plastic pails

Technical Data

Properties	Results
Appearance	White liquid
Mix density at 25°C	1.05 kg /L
VOC	10.0 g/L
Results of Mixing KRETESIL with KRETESIL FLEX	
pH	8-9
Workability time at 25°C	40 minutes
Adhesion to concrete	>1.0 N/mm ²
Water permeability	Nil
Elongation at break	Up to 50%
Chloride ion diffusivity	Not measurable after 24 months testing
Noxiousity according to ECM 88/379	No
Service temperature	from -5°C to +80°C

All values are subject to 5-10 % tolerance

Storage

Should be stored under cover away from extreme heat, direct sunlight. Shelf life is 12 months if stored tightly sealed containers under good storage conditions.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

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colmef@colmef.ae

www.colmef-me.com