

Sealmax CB 504 Super Elastic

Construction Chemicals > Waterproofing Products > Cement-Acrylic-Based



Sealmax CB 504 is a super elastic, high-adhesion, two-component waterproofing material composed of special additives, cement, and liquid polymers.

■ Fields of Application

- On the interior surfaces of water tanks
- In all wet areas (bathrooms, toilets, etc.)
- On foundations, basements, and retaining walls
- On roofs, terraces, and balconies
- On the interior surfaces of swimming and decorative pools
- For flower bed waterproofing
- As a protective coating on bridges

■ Advantages

- Easily applied with a fine trowel or brush
- No extra water needed as the liquid and powder mixture is provided in ready-to-use ratios
- Provides high adhesion and adheres very well to surfaces
- Mixes quickly and easily
- Can be painted; suitable for both horizontal and vertical applications
- Safe for contact with drinking water
- In wet areas, can be directly applied with ceramic tiles over screeds

1 Preparation of Substrate

The surface to be treated must be free from oil, dirt, rust, and all loose materials. If necessary, clean the surface with a water jet. The surface must have adequate strength. Large cracks and voids on the cleaned surface should be filled with Merks Repair Plus series repair mortars. Lightly dampen the cleaned surfaces and avoid direct sunlight during application. Apply Merks Bandix Cove Tape with Sealmax CB 504 at corners and around pipes.

2 Preparation of Mortar

First, shake Component B and pour it into a container. While mixing with a low-speed drill, gradually add Component A. Continue mixing until the mixture is free of lumps and fully homogenized. After allowing the mixture to rest for 3-5 minutes, mix again for 30 seconds before application. The prepared mortar should be applied within 30-40 minutes at 20°C.

3 Curing Times

It gains mechanical strength after 3 days, achieves waterproofing after 7 days, and reaches its final strength after 14 days.

6 Points to Consider

- The application should be performed on surfaces exposed to positive water pressure.
- During application, ensure that the air is dry and the temperature is between +5°C and +35°C. For the second coat, the brush, roller, or sprayer should be applied at a 90° angle to the previous coat. Applications must be covered with a protective layer.
- The liquid component should be protected from freezing; if the product accidentally freezes, it should not be used as it will lose its properties once thawed.
- After finishing the work, tools should be cleaned thoroughly with plenty of water.

7 Packaging

30 kg set (A+B) Component A: 20 kg of powder in a PE-reinforced kraft bag
Component B: 10 kg of liquid in a plastic container.

8 Storage Life

At least 12 months when stored in a closed package and protected from freezing.



TECHNICAL DATAS

Material Composition	
Component A	Mineral fillers, polymer-modified additives, and special cement.
Component B	Copolymer acrylic dispersion.
Appearance	
Component A	Grey powder
Component B	Milk-white liquid
Mixing Ratio	20 kg of powder to 7 liters of liquid
Application Temperature	(+5°C) - (+35°C)
Bulk Density of Powder	~ 1,35 kg/l
Bulk Density of Liquid	~ 1,07 kg/l
Bulk Density of the Mixture	~1,6 kg/l
Flexibility	Well
Pot Life	~ 30 min
Adhesion Strength	≥ 1,45 (28 days) N/mm ²
Pressure Water Resistance	7 bar positive
Water Vapor Permeability	Class I; Sd < 5 (Sd: Equivalent air layer thickness)
Capillary Water Absorption and Water Permeability	w < 0,1 kg/(m ² .h ^{0,5})
Service Temperature	-20 °C +80 °C
Opening for Use	-
Mechanical Strength	3 days
Water Impermeability	7 days
Covering Over	-
With Plaster	3 days
With Ceramic	3 days
Shelf Life	12 months in a dry environment in unopened packaging
Package	30 kg set (20 kg PE reinforced kraft paper bag, 10 kg plastic drum)