

Sealmax CB 504 Semi-Elastic

Construction Chemicals > Waterproofing Products > Cement-Acrylic-Based



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

■ Fields of Application

- In all wet areas (bathrooms, toilets, etc.)
- On basement and retaining walls
- As an adhesion bridge and for repairs in restoration work

■ Advantages

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

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. Fill large cracks on the cleaned surface with Merks Repair Plus series repair mortars. Lightly dampen cleaned surfaces and avoid direct sunlight during application. Use Sealmax CB 504 with Bandix Cove Tape for corners and around pipes.

2 Preparation of Mortar

First, shake component B and pour it into a container. While continuously mixing with a low-speed drill, gradually add component A. Continue mixing until the mixture is free of lumps and fully homogenized. After letting the mixture 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 Application

Before application, the surface should be moistened. Apply the first coat using a brush in a single direction and allow it to dry. For a uniform layer, use a stiff brush. The second coat should be applied perpendicularly to the first coat. The prepared mixture should be used within 30 minutes.

4 Consumption Amount

Consumption rates vary depending on the surface condition. The average consumption per coat is 1.5 kg/m². It is recommended to apply at least two coats. The ideal thickness is achieved with a total consumption of 3-3.5 kg/m² in two coats. In areas with high water pressure, the consumption is 4-5 kg/m² in 3-4 coats.

5 Curing Times

Gains mechanical strength after 3 days, becomes waterproof 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.
- Ensure that the air is dry and the temperature is between +5°C and +35°C during application. For the second coat, apply the brush, roller, or sprayer at a 90° angle to the previous coat.
- Surfaces exposed to impacts or areas that need to be open to human or vehicle traffic should be covered with a protective layer.
- Protect the liquid component from freezing; if it accidentally freezes, it should not be used as it will lose its properties once thawed.
- Clean tools thoroughly with plenty of water after finishing the work.

7 Packaging

The 26 kg set (A+B) consists of Component A, which is a 20 kg powder packaged in a PE-reinforced kraft bag, and Component B, which is a 6 kg liquid contained 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.
Component C	Natural aggregate
Appearance	
Component A	Gray powder
Component B	Milk-white liquid
Mixing Ratio	20 kg of powder to 6 liters of liquid
Application Temperature	(+5°C) - (+35°C)
Bulk Density of Powder	~ 1,35 kg/l
Bulk Density of Liquid	~ 1,00 kg/l
Bulk Density of the Mixture	~1,50 kg/l
Flexibility	Medium
Pot Life	~ 30 min
Adhesion Strength	≥ 1 (28 days) N/mm ²
Water Vapor Permeability	Class I; Sd <5 (Sd: Equivalent air layer thickness)
Capillary Water Absorption and Water Permeability	w < 0,1 kg/(m ² .h0,5)
Service Temperature	-10°C +60°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
Packaging	26 kg set (20 kg in a PE-reinforced kraft bag, 6 kg in a plastic container)