

# Sealmax CB 504 UV Super Elastic

Construction Chemicals > Waterproofing Products > Cement-Acrylic-Based



Sealmax CB 504 Tam Elastik UV is a fully elastic, UV-resistant, two-component waterproofing material composed of special additives, cement, and liquid polymers. It provides high adhesion.

## ■ Fields of Application

- Waterproofing of exposed roofs, terraces, balconies, gutters, and drainage systems
- Moisture and water proofing of walls
- Retaining walls
- Surfaces of swimming and decorative pools
- All wet areas (e.g., bathrooms, toilets)
- Flower bed waterproofing
- On concrete structures
- Protective coating on bridges

## ■ Advantages

- UV resistant
- Can be easily applied with a brush, roller, or trowel
- Comes in pre-mixed liquid and powder ratios, requiring no additional water
- Provides high adhesion and excellent bonding to surfaces
- Mixes quickly and easily
- Paintable
- Suitable for application on horizontal and flat surfaces
- Suitable for contact with drinking water

## 1 Preparation of Substrate

The surface to be applied must be free from oil, dirt, rust, and all loose materials; if necessary, it should be cleaned with a water jet. The surface must have achieved sufficient strength before application. Large cracks and voids on the cleaned surface should be filled with Merks Repair Plus series repair mortars. Cleaned surfaces should be lightly moistened. Sealmax CB 504 should be applied with Merks Bandix edge tape at corners and around pipe edges.

## 2 Preparation of Mortar

First, component B is shaken and placed into a container. While mixing with a low-speed drill, component A is gradually added. Continue mixing until there are no lumps and the mixture is homogeneous. After a 3-5 minute resting period, mix for an additional 30 seconds before application. The prepared mortar should be applied within 30-40 minutes at 20°C.

## 3 Application

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

## 4 Consumption Amount

The consumption rates may vary depending on the surface condition. The average consumption per coat is 1.5 kg/m<sup>2</sup>. It is recommended to apply at least two coats. The ideal thickness is achieved with a total consumption of 3-3.5 kg/m<sup>2</sup> over two coats. In areas with high water pressure, the consumption rate is 4-5 kg/m<sup>2</sup> over 3-4 coats.

## 5 Curing Times

The mechanical strength is achieved after 3 days, water impermeability after 7 days, and final strength after 14 days.

## 6 Points to Consider

- The application should be made 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, apply the brush, roller, or sprayer perpendicular (90°) to the previous coat.
- The areas to be applied should be exposed to light traffic only. In environments that will be subjected to impact or heavy traffic, applications must be covered with a protective layer.
- For large areas, it is recommended to use the product in conjunction with thin isolation reinforcement mesh.
- The liquid component should be protected from frost. Do not use any product that has accidentally frozen after thawing, as it will have lost its properties.
- After finishing the job, tools should be cleaned thoroughly with 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 can

## 8 Storage Life

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



## TECHNICAL DATAS

<b>Material Composition</b>	
<b>Component A</b>	Mineral fillers, polymer-modified additives, and special cement.
<b>Component B</b>	Copolymer acrylic dispersion.
<b>Appearance</b>	
<b>Component A</b>	White Powder
<b>Component B</b>	Milk White Liquid
<b>Mixing Ratio</b>	20 kg powder / 10 l liquid
<b>Application Temperature</b>	(+5°C) - (+35°C)
<b>Bulk Density of Powder</b>	~ 1,35 kg/l
<b>Bulk Density of Liquid</b>	~ 1,08kg/l
<b>Bulk Density of the Mixture</b>	~1,6 kg/l
<b>Flexibility</b>	Well
<b>Pot Life</b>	~ 30 min
<b>Adhesion Strength</b>	≥ 1,45 (28 gün) N/mm <sup>2</sup>
<b>Pressure Water Resistance</b>	7 bar pozitif
<b>Water Vapor Permeability</b>	Class I; Sd < 5 (Sd: Equivalent air layer thickness)
<b>Capillary Water Absorption and Water Permeability</b>	w < 0,1 kg/(m <sup>2</sup> .h0,5)
<b>Service Temperature</b>	-20 °C +80 °C
<b>Opening for Use</b>	-
<b>Mechanical Strength</b>	3 days
<b>Water Impermeability</b>	7 days
<b>Covering Over</b>	-
<b>With Plaster</b>	3 days
<b>With Ceramic</b>	3 days
<b>Shelf Life</b>	12 months in a dry environment in unopened packaging
<b>Package</b>	30 kg set (20 kg PE-reinforced kraft bag, 10 kg plastic canister)