

Bitu-Rub Combo BB 594

Construction Chemicals > Waterproofing Products > Bitumen Rubber-Based



Bitu-Rub Combo BB 594 is a two-component, elastic, waterproof liquid insulation material that combines bitumen-rubber emulsion with a special cement-based dry mixture for long-lasting protection.

■ Fields of Application

- Foundations, basements, retaining walls
- Curtains and all reinforced concrete surfaces in contact with soil

■ Advantages

- Ready to use, can be easily applied with a brush, roller, or spray gun.
- Does not shine or catch fire as it is solvent-free.
- Being water-based, the product can be thinned with water and used as a primer.
- Bridges shrinkage cracks.
- Resistant to plant roots due to its bituminous content.
- Maintains elasticity at low temperatures.

1 Preparation of Substrate

The surface to be applied should be cleaned of oil, dirt, rust, and all loose materials. If necessary, the surface should be cleaned with a water jet. The surface must have achieved sufficient strength before application. Any large cracks and tie-rod holes on the cleaned surface should be filled with Merks Repair Plus series repair mortars. Corners should be rounded off with fillets.

2 Application

The liquid component of Bitu-Rub Combo BB 594 should be mixed before use. Then, the powder component should be added to the liquid component and mixed with a low-speed drill until homogenized (approximately 3-5 minutes). It can be applied with a brush or roller. Typically, an application thickness of 2 mm is required to achieve optimal results. This thickness should be achieved with two to three coats.

3 Consumption Rate

Consumption is approximately 2.0 – 3kg/m²

4 Points to Consider

- The application should be done on surfaces exposed to positive water pressure.
- Ensure that the weather is dry and the temperature is above +5°C during the application. For the second coat, the brush, roller, or spray should be applied at a 90° angle to the previous layer.
- The material must be protected from freezing. Any product that has been frozen should not be used, as it will lose its properties after thawing.
- Surfaces where insulation has been applied on retaining walls should be protected with XPS and drainage boards.
- Bitu-Rub Combo BB 594 should not be used for water tank and pool insulation. For such details, the Sealmax series products should be preferred.
- Tools should be cleaned with water after the work is completed.

5 Packaging

32 kg set plastic bucket (24 kg liquid + 8 kg powder)

6 Storage Life

At least 12 months in sealed packaging and protected from freezing.



TECHNICAL DATAS

PRODUCT FEATURES	Component A	Component B
Appearance	Liquid	Powder
Color	Brown – Turns Black When Cured	Gray
Density (g/cm ³): A / A+B	1,05 g/cm ³ 1,15 g/cm ³ (±0,04)	1.45 g/cm ³ (±0.1)
pH	11 (±1)	-
Viscosity - Brookfield (mPa-s)	6000 (rotor 6 - 60 RPM) *	-
Solid Content Ratio (A / A+B) (%)	% 58 / %68 (±%4)	-
Mixing Ratio - kg (A+ B)	24/8 kg	
Pot Life	1 - 2 hours	
Application Temperature	+5°C / 30°C	
Service Temperature	-20 °C / 80 °C	

Main Characteristic	Method	Performance Value According to TS EN 15814	Performance Value
Crack Bridging (+4°C)	EN 15812	Class CB0: no requirement Class CB1: 1 mm crack bridging at 3 mm thickness Class CB2: 2 mm crack bridging at 3 mm thickness	CB2
Water Resistance	EN 15817	1. No color change in water. 2. No separation from the mesh in mesh-reinforced application.	PASS
Flexibility at Low Temperature(0°C)	EN 15813	No cracking	PASS
Dimensional Stability at High Temperature(70°C)	EN 15818	No flow or slip	PASS
Reduction in Thickness After Full Curing	EN 15819	≤ 50%	≈ 30 %
Reaction to Fire	EN 13501-1	Euroclass	E
Water Impermeability (1 mm crack)	EN 15820	Class W1: ≥ 24 hours at 0.0075 N/mm ² pressure, dry film thickness without mesh reinforcement ≥ 3 mm Class W2A: ≥ 72 hours at 0.075 N/mm ² pressure, dry film thickness with mesh reinforcement ≥ 4 mm Class W2B: ≥ 24 hours at 0.075 N/mm ² pressure, dry film thickness without mesh reinforcement ≥ 4 mm	W1
Rain Resistance (23°C , 50%)	EN 15816	Class R1: Up to 24 hours Class R2: Up to 8 hours Class R3: Up to 4 hours	R2

*Production viscosity may increase over time.