



NEOBITUMEN 545BK

POLYMER MODIFIED BITUMEN RUBBER BASED, FIBER REINFORCED, TWO COMPONENT WATERPROOFING MATERIAL

DEFINITION:

NEOBITUMEN 545BK is a bitumen rubber based, two component, fiber reinforced, high viscosity waterproofing material.

AREAS OF APPLICATION:

- In foundation and curtain walls,
- In wet areas, retaining walls,
- In the protection and insulation of buildings and building elements exposed to leakage water, temporary or permanent water pressure,
- It can be applied for bonding insulation and drainage boards.

ADVANTAGES:

- It is easy to prepare and apply, does not contain solvent, is environmentally friendly,
- Provides a jointless, seamless, permanent moisture and waterproof coating,
- It can be used on vertical and horizontal surfaces, It provides good adhesion to the applied surface, It has the feature of bridging shrinkage cracks with its flexible structure,
- It is applied on dry and slightly damp surfaces, It is applied with a brush and a steel trowel.
- Resistant to freeze-thaw cycle,
- Resistant to various salt solutions and weak acids, It can be used in areas affected by motion and vibration.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23 °C, %55 R.H.)	A Com.	B Com.
Structure of the Material	Bitumen Emulsion	Dry Mix Containing Special Cement and Aggregates
Colour	Brown (Black When Dry)	
Consistence	Pasty Consistent	
Density (gr/cm ³)	A Com.: 1,02 ± 0,05 - A + B mix.: 1,12 ± 0,05	
Amount of Solids	A Com.: 56 ± 1 - A + B mix.: 68 ± 1	
Water Impermeability	W2A (EN 15820 Test Method)	
Crack Bridging	CB2 (EN 15812 Test Method)	
Rain Resistance	R2 (EN 15816 Test Method)	
Fire Resistance	E (EN 13501 – 1 Test Method)	
Temperature of the Floor to be Applied	+ 5°C / + 30°C	
Service Temp.	-20°C / +80°C	
Contact Time with Water	48 hour	
Pot life	1-2 hour	
Curing Time	1-2 hour	
Service Temp.	Min. 24 hour	



Note: This product is for professional users. The information in this publication is based on our professional knowledge and experience. This information does not eliminate the obligation of users of our products to test their suitability for their place of use. As the implementation and use of our products is beyond our control, none of the recommendations are within our warranty. Users should evaluate our products on their own terms and are solely responsible. The technical data sheets of all our products are updated at regular intervals. Users are responsible for obtaining the latest version.

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APPLICATION INFORMATION

Surface Preparation: Oil, wax, grease, water repellants, loose parts and dust that will weaken the adhesion forces on the surface should be removed by cleaning with a floor milling machine. If there are deep cavities, they should be filled with cement based repair mortars and/or NEOPOXY REPAIR. The outer corners should be broken and chamfered. Corner joints should be chamfered with NEOPOXY REPAIR in 4x4 cm. New concrete must be at least 28 days old. The surface should be primed before application. Concrete surfaces to be applied must have at least the following standards:

- Hardness: R28 = 15 Mpa
- Temperature: 10-30 °C
- Surface moisture: < 4 %

Preparation of the Mixture: Component A and component B come in a single plastic package with pre-determined mixing ratios. Component B (powder mixture) is slowly added into component A (liquid component) and mixed with the help of a 400 – 600 rpm mixer for 3-5 minutes until a homogeneous and lump-free mixture is obtained. After the mixture is completed, a rest for about 5 minutes is done and again max. After mixing for 1 more minute with a mechanical mixer, the material is ready for use. The mixed material should be consumed within 1-2 hours. It is a two-component product and should be prepared in the specified mixture ratio, considering the pot life, as much as the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15°C.

APPLICATION:

- The application surface should be primed with a solvent-free bitumen primer and the application should be started after the primer is completely dry.
- The liquid component of the product can be thinned with 1/5 of water to make a primer. The material should be distributed evenly with a suitable brush and applied on horizontal surfaces without allowing material accumulation and ponding.
- The primer should be allowed to dry and then the actual application should be started.
- The consumption for the primer should be 0.25 kg/m².
- The material should be applied to the prepared surface in at least 2 coats with a brush, trowel or spray.
- After the first coat is applied, it must be completely dry for the second coat application. The second floor should be made perpendicular to the first floor. Foundation excavation should not be closed until complete drying.
- Filling should be done after the coating is protected with appropriate thermal insulation and drainage boards.

Considerations:

- It should not be applied when it is raining or in situations where it is likely to rain.
- It should be protected from frost, sun and strong wind for the first 24 hours after the application.

-The application should be made on the part of the structure that comes into contact with water. Since the curing of the material will be slower in cold weather, it should be ensured that the first layer is completely dry before applying the 2nd layer.

-Attention should be paid to the application temperature, it is necessary to apply in the temperature range of +5°C to +30°C.

Post-Application Cleaning: Tools used should be cleaned with water before drying. Cleaning can be done with solvent for dried material.

CONSUMPTION:

Depending on the surface type and the required degree of protection, it is 3-6 kg/m².

1,45 kg/m² should be applied to obtain a dry film thickness of 1 mm.

Area of Usage	Dry Film Thickness (mm)	Consumption (kg)
In damp floor areas	3 mm	4,00 – 4,50 kg/m ²
Temporary Pressurized Water	3 mm	4,00 – 4,50 kg/m ²
Continuously Pressured Water	4 mm	5,80 – 6,00 kg/m ²

PACKAGING INFORMATION:

As a set in a 32 kg plastic bucket;

Powder Component: 8 kg

Liquid Component: 24 kg

STORAGE AND SHELF LIFE:

As a set in a 32 kg plastic bucket;

Powder Component: 8 kg

Liquid Component: 24 kg

HEALTH/SAFETY INFORMATION

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not come into contact with the skin and eyes. In case of contact, wash with plenty of water and soap. If swallowed, seek medical advice immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children. Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.



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