

SuperCoat BPU-2C

Bitumen/ Polyurethane / Poliurea Based, Two Component, Liquid, Waterproofing Material

Product Description

SuperCoat BPU-2C is a two component, liquid, bitumen / polyurethane based waterproofing coating that bridges cracks, curing with air humidity. Adheres perfectly to different surfaces and creating a durable and elastic film. Has high mechanical and chemical resistance and resistant to tensile, tear and abrasion with its permanent flexible structure. It is based on pure elastomeric hydrophobic polyurethane resin and is extended with chemically polymerised virgin bitumen.

Areas of Application

SuperCoat BPU-2C is used for the protection and waterproofing of the following surfaces that are not exposed to direct sunlight;

- Terrace, roof and rain gutters.
- Patios and balconies.
- Construction bases and floors.
- Retaining walls.
- Wet surface under tile.
- Light roofing made of metal or fibers from materials.
- Bitumen, PVC, EPDM based membranes.
- It is used with suitable primers on concrete, wood and metal surfaces.



Advantages

- It is a cold application and can be easily applied with a roller, trowel, brush or airless spray gun.
- Creates a crack bridge.
- No additional applicable.
- Resistance to ponding water
- High resistance to frost.
- It maintains physical properties at -30°C / + 90°C.
- Water vapor permeable and allows the surfaces to breathe.
- It has excellent adherence properties.
- Shows effective resistance to chemicals.
- Does not contain toxic substances after curing.
- It is elastomeric hydrophobic polyurethane resin based and supported with polymerized bitumen.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

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Application Method Surface Preparation

Application surfaces should be dry and clean. Concrete and plaster residues should be mechanically; Oil, grease, fuel and paraffin wastes should be cleaned using chemical solvents. Damages and cracks must be repaired with products that are available. SuperCoat BPU-2C should be applied priming with a suitable primer based on epoxy or polyurethane after depending on the surface condition.

Application of concrete surfaces;

- Hardness (R28 = 15 Mpa)
- Temperature: 5-35 °C
- Relative humidity: < 85%

Technical Properties

Properties (23°C&%55 RH)	Unit	Method	Specifications
Color			Black
Viscosity (BROOKFIELD)	cP	ASTM D2196-86 / EN ISO 3219	A+B 4.000 – 5.000
Density	gr/cm ³	ASTM D1475/DIN 53217/ISO 2811	0,98 ± 0,05
Flash point	°C	ASTM D93, closed container	42
Time To Be Able To Walk On	Hour	-	16-24
Full Cure	Day		5
Recoat Time	Hour	-	12-24
Hardness (7 Days)	Shore A	ASTM D2240 / DIN 53505 / ISO 868	35-40
Tensile strength (7 Days)	N/mm ²	ASTM D412	> 2,5
% Elongation	%	ASTM D412 / EN-ISO-527-3	> 2000% @23°C
Pot Life	min		50

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Priming

Highly absorbent surfaces such as concrete, cement screed or wood; Before priming, the primer should be applied after the film is saturated with PU primer.

Preparation of Mixture

SuperCoat BPU-2C considering the mixture life of the two components, the amount to be consumed should be prepared at the specified mixing ratio. In order to obtain a homogeneous mixture, the product temperature should not be less than 15°C. The A component should be stirred quickly with a mechanical mixer, adding the hardener (component B) to the mixing ratio. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until homogenous.

Application

SuperCoat BPU-2C is applied by roller, trowel, brush and airless spray. The mixture, which is ready for application, is applied to the surface to be saturated and pores to be closed. New coat application time is at least 4 hours (23°C), up to 24 hours. The primer surface should be sanded before the application of new coats exceeding 24 hours. It is very important that the second coat is applied within the new coat application period mentioned above. It reaches a complete mechanical and chemical resistance in 5 days(23 °C, 55 % RH).

SuperCoat BPU-2C is applied with a thin comb trowel, airless spraying machines or brush or roller.

- Do not wait more than 24 hours between coats.
- The primer surface should be sanded before the application of new coats exceeding 24 hours.
- If the application is intended to be applied by spraying method, the material should be applied after the thinning of Tortoise Polyurethane Thinner.
- 24-hour room temperature waiting packages are opened and mixed until homogenous. Mixing should be done with low speed mixer and appropriate mixer tip.
- SuperCoat BPU-2C spreads homogeneously by making consumption control on the primed surfaces with the help of thin comb trowel, short-hair roller brush or airless spray gun.
- The layer must be protected against water and rain, external influences and mechanical stress until it is dry.
- If the second coat is applied, it should be waited between the coats (approximately 12 - 24 hours). It should be taken into consideration that waiting time can be shortened in hot weather and it can be extended in cold weather.

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Consumption

As Two layer 1,500 – 2,000 kg/m² min.

- Consumption may vary depending on surface roughness, ambient and surface temperature and application method.

Packing

- A+B = 15 + 15 Kg

Storage and Shelf Life

- It should be protected from water, frost and adverse weather conditions
- Store in a dry and cool environment (between +15°C / + 25°C)
- The date of manufacture is on the label.
- Even opened packages are tightly closed, the inside of the product will be curing quickly so that the opened cans will be consumed.
- The shelf life is 12 months if the specified storage conditions are followed.

Warnings

- It should not be applied in closed areas due to long-term solvent odor or the environment should be well ventilated.
- The surface temperature should be +5°C. The mixture of the material should be made with a special mixing device and tip which does not exceed 300- 400 RPM and it should not be mixed with high speed drill.
- In cold weather, packagings must be stored at a minimum temperature of +15 °C for at least 24 hours prior to application.
- Water vapor pressure should not be observed on the negative side. In such a case, special insulation must be applied before application.
- After the application, the surface must be protected against water, rain, dew, snow, hail etc. until it is dry.
- Full mechanical and chemical strength will occur in 7 days should be considered.

Cleaning Tools

Cleaning of the tools should be done with soapy water before curing. After curing cleaning should be done with Thinner.

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Precaution

- Contains solvent, flammable.
- Do not contact with open flames and do not smoke during application.
- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Do not swallow, Do not use empty packages for storing foodstuffs and do not throw them into fire.
- For professional use only, keep out of the reach of children.

Declaration

The information contained herein and in particular the application and end-use recommendations are provided in good faith, based on our current knowledge and experience, when properly stored, prepared and applied. Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products, be sure to apply the correct product in the right conditions and in the right place, and strictly follow the information and instructions given by our company regarding commercial convenience and/or suitability for a particular purpose. Otherwise, our company is not responsible for damages that may occur. The user of the product (user) must test the suitability of the product for the application and purpose for which it intends to use the product. We reserve the right to change the specifications of our products. Property rights of third parties should be observed. Upon acceptance of all orders, our current terms of sale and shipping shall prevail. Users should always consider the latest edition of the Product Data Sheet (TDS), which we can obtain from our company or our website, by contacting our company for the relevant product.

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