

BITUPREN COMPOUND – Two-component spray grade liquid rubber



BITUPREN COMPOUND two-component liquid rubber is a unique product designed for a wide range of use in construction, from the foundation up to the roof, for seamless coating application and constant protection from moisture, water and corrosion.

Two-component product is applied by airless spraying using special equipment exclusively. Due to instant curing and one layer application it is applicable on almost any surface of any complexity and geometry, on any material without using fire or any heat sources, it also needs no special safety measures or complex surface preparation before application.

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Modified bitumen-rubber water-based emulsion.

DESCRIPTION

Two-component product for industrial use designed for applying seamless waterproofing coatings in order to protect any construction elements exposed to UV, water, most of acid and alkali solutions, oxidization and aging. Can be applied on any surfaces such as concrete and masonry, marble, slate, wood, ferrous and galvanized metals, plastic, polystyrene, glass etc.

USAGE

- Waterproofing coating on foundation walls and surfaces below grade
- Treatment of seams between construction elements, bridges etc.
- Waterproofing coatings for the protection of roofs, overarching, ballasted roofs, balconies, skirting, basements, lavatories, bathrooms and working areas
- Repair of old bitumen roof coatings, metal, slate and other sheet roofings
- Waterproofing of wells, gutters, collecting funnels, counter flashings
- Waterproofing of tanks, swimming pools, reservoirs, containers for storing water or chemicals
- Anticorrosive treatment of metal constructions, underground engineering lines

APPEARANCE

Moderate viscosity dark brown liquid with a mild oil aroma

PHYSICAL PROPERTIES

- Density: 1000±2 % g/l
- Solids content: 62±2 %
- Viscosity: 200 mPs

APPLIED COATING PROPERTIES

Solidified coating forms a monolithic seamless rubber-like coating which being thoroughly dried gets such characteristics as high strength and elasticity, mechanical deformation resistance, absolute water-, vapor- and gas resistance. The product is not resistant to a long-time contact with oil products, gasoline and machine oil.

COATING PHYSICAL PROPERTIES

- Dried coating thickness: 3 mm (whet 4 mm)
- Hardness: 25 A
- Strength: 1.1 mPa (14 days later)
- Tensile elongation: 1010%
- Form recovering: 99%
- Adhesion to concrete: 1.35 mPa
- Adhesion to steel: 0.95 mPa
- Temperature resistance (at 115 C): No swelling or leakage
- Water permeability (0.001 mP): No signs of water intrusion
- Water permeability (0.03 mP): No signs of water intrusion
- Moisture absorption: 1, 1%
- Flexibility (R=25): -25 C

CHEMICAL RESISTANCE TO AGGRESSIVE FLUIDS (EXPOSURE FOR 90 DAYS)

- Acetic acid: 30%
- Sulfur acid: 13%
- Hydrochloric acid: 35%

BITUPREN COMPOUND is a two-component product for industrial use. It is applied by dual-channel spraying equipment for external catalyzation. Curing occurs immediately on the surface by mixing the components inside the spray cone. 10-15% solution of calcium chloride is used as a catalyzer. Components to catalyzer ratio: 10:1. Application takes place at temperatures above +5C. Do not apply on open surfaces if there is a threat of rain.

COATING DRYING TIME (temperature 25C, relative humidity 55%)

- Surface drying time – immediately
- Deep drying – up to 48 hours
- Through drying – up to 7 days

COVERAGE

The apply rate of 3.9 – 4.0 kg per m² for a film thickness 3.0 mm is recommended.

SURFACE PREPARATION

The product is applied on dry, clean, dirt and oil free base, with no coatings or inclusions which may deteriorate the adhesive ability of the product.

The humidity of less than 10% is allowed if applied on porous bases provided that high hardness and strength.

It is recommended to apply VODIPRIMER emulsion on bases as a primer.

Metal bases should be mechanically cleaned, oil overlays should be removed, corrosive layer and paint coat with low adhesive should be free of dust.

SERVICE CONDITIONS

When the application is thoroughly dried, it acquires black color and UV resistance, the coating is unexploited. This coating shows no signs of aging being exposed to temperature drops, chlorine, ozone and most chemicals resistance.

We suggest to apply an extra protective coating ACRILET 198 or other coatings which do not contain any chemical solvents or oils in order to increase coating life time.

PRODUCT SIZES AND STORAGE

210 l "open-top" plastic drum

Storage temperature: +10°C to + 30°C.

Shelf life: 6 months in a closed container.

Once used the product should be stored in a closed container.

DO NOT ALLOW THE PRODUCT TO FREEZE!

PRODUCT PREPARATION BEFORE APPLYING

The product is ready to use. Do not dilute or use chemical solvents. Before applying, the product should be thoroughly stirred.

It is necessary to dilute 15 kg of calcium chloride in 85 liters of clean water carefully mixing until the total dilution in order to make a catalyzer (15% concentration).

INSTRUMENT CLEANING

Instruments must be rinsed with water in order to remove liquid product. Solidified product can be removed with mineral spirit (white sprit).

SAFETY INFORMATION AND HYGIENE

The product is water-based, non-toxic, contains no chemical solvents.

In case of skin contact, the product does not cause skin burns or irritations.

Use rubber gloves, special clothing and other kinds of personal protective equipment while using the product.

The liquid product can be removed with water and soap and then skin should be treated with softening cream or oil.