

BITUPREN 90 – High Buid liquid rubber



Single component liquid rubber BITUPREN 90 – is an alternative to two-component liquid rubber BITUPREN COMPOUND for performing all kinds of roof and waterproofing coating application which does not need any special equipment. Easy application, great performance characteristics of the coating allow to create a waterproofing roof coating and to repair rolled roof coatings of any complexity and square effectively, to create a seamless waterproofing coating on foundation walls, floor and to protect construction elements from moisture, water and corrosion.

Rubber coatings BITUPREN 90 differ from BITUPREN COMPOUND due to its performance characteristics: higher density, higher temperature resistance, more suitable for using the coating by people at high temperatures. Solidification occurs by natural evaporation of water that is present in the compound in 24 hours.

CONTENTS

Modified bitumen-polymeric water-based emulsion.

DESCRIPTION

Single component product which provides a thin layered seamless waterproof coating for protection of 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, polysterene, 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
- Anticorrosive treatment of metal constructions, underground engineering lines

APPEARANCE

Moderate viscosity black liquid with a mild oil aroma.

PHYSICAL PROPERTIES

- Density: 1050 g/l
- Solids content: 70±2 %
- Viscosity: 1500 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

- Coating thickness: 2, 0 mm
- Hardness: 35 A
- Strength: 1, 30 mPa (14 days later)
- Tensile elongation: 600%
- Form recovering: 100%
- Adhesion to concrete: 1, 10 mPa
- Adhesion to steel: 0, 90 mPa
- Temperature resistance (at 120 C): No swelling or leakage
- Water permeability (0,001 mP): No signs of water intrusion
- Moisture absorption: <1,25%
- Flexibility (R=25): -15 C

APPLICATION

BITUPREN 90 is a single component ready to use product. It is applied by spraying equipment or by hand with a brush or a paint roller. Can be diluted with BITUPRIMER emulsion up to 10% vol. as viscosity control required. 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 – up to 24 hours

Deep drying – up to 48 hours

Through drying – up to 7 days

COVERAGE

The apply rate of 2,5 kg per m² for a film thickness of 2,0 mm is recommended. Being applied manually the product is applied by layers (0,50-0,80 kg/m²) allowing the surface to dry before next layer application.

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. It is recommended to apply BITUPRIMER emulsion on bases with high degree of porosity 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, temperature drops, chlorine, salt and most chemicals resistance. If the roof is exposed to light load, we suggest to apply an extra protective coating ACRILET 198.

PRODUCT SIZES AND STORAGE

5 and 20 kg buckets.

Storage temperature: +10C to + 30C.

Shelf life: 12 months in a closed container.

Being 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.

INSTRUMENT CLEANING

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

SAFETY INFORMATION AND HYGIENE

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

In case of skin contact, the product doesn't 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, then skin should be treated with softening cream or oil.