



BITUMENT PU 2C

Bitumen-Polyurethane Based Two-Component Waterproofing Material

Bitumen-Polyurethane based, two-component, fast-curing, super elastic, waterproofing material.

Advantages

- It provides waterproofing without joints, seams and against all kinds of water and moisture effects
- It can be applied to all mineral surfaces.
- It is resistant to detergents, oils, seawater and household chemicals.
- It retains its mechanical properties even in harsh climatic conditions.
- Thanks to its application consistency, complex details can be easily accessed.

Uses

It is used as an insulation material against moisture, non-pressurized and pressurized water in the waterproofing of foundations, curtain walls, terrace roofs, balconies, parking lots, bridge tops and similar areas of all buildings. It is also applied as a waterproofing material in wet area insulation, renovations of old waterproofing coatings.

Technical Information

Number of Floors That Can Be Applied	Waiting Time Between Floors At least 12 hours, Up to 72 hours	Full Curing Time ~ 7 days	Service Temperature (-40) – (+90) ⁰ C	Shore A 35 - 40
Tensile Strength ≥ 6.50 N/mm ²	Adhesion Strength to Concrete ≥ 1.50 N/mm ²	Tear Strength ≥ 15.00 N/mm ²	Puncture Strength ≥ 100.00 N	Elongation at Break ≥ 2400%

Surface Preparation Before Application

Surface preparation is of great importance for optimum strength and appearance. The surface must be clean, dry, smooth, firm and free from dirt that may affect primer adhesion. The application surface moisture content should not be more than 5%. The surface compressive strength should be at least 25 Mpa and the adhesion strength should be 1.5 Mpa. Fresh concrete should be waited for at least 28 days to dry. Old coatings, dirt and organic components should be removed from the surface with sandpaper or shot-blasting. Substances such as oil and grease on the surface should be cleaned. Defects on the surface should be corrected. It is the removal of weak particles on the surface and the dust formed after sanding from the surface. Significant defects and holes in the surface should be repaired with YAPBUILT® series structural repair mortars at least 24 hours before the application of weberdry PUR basic. The dilatation joints on the application surfaces should not be closed, and dilatation insulation tapes should be used for the continuity of insulation at these points. To ensure continuity of tightness, vertical and horizontal corners must be chamfered with structural repair mortars of the YAPBUILT® series. There is no need to apply primer on solid and high-quality concrete surfaces. Cementitious and absorbent surfaces such as wood and glass, metal, old ceramic, bitumen, acrylic coated surfaces should be primed with YAPFLOOR® EPOXY PRIMER.

Method of application

Both 2 components of YAPSEAL® BITUMENT PU 2C must be thoroughly homogenized before mixing. Afterwards, both components should be mixed in a clean bowl with the help of a low-speed mixer until a lump-free, homogeneous consistency is reached.

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It should be applied to the primed surface to be applied using a brush, roller or toothed trowel. Fine cracks, joints, corners and edges should be supported with polyester felt after the first coat application. In terrace roofs and similar applications, polyester felt application should be made to the entire surface after the first coat application. The application should be at least 2 layers, at least 12 hours should be waited between coats (waiting time should not exceed 72 hours).

Post-Application Care and Recommendations

The moisture content of YAPSEAL © BITUMENT PU 2C application surfaces should not be more than 5%. For an ideal application, the surface compressive strength should be at least 25 Mpa and the adhesion strength should be 1.5 Mpa. The thickness of the application of a single layer (dry film) should not exceed 0.6 mm. The product should be kept away from sources of fire and should not be approached with cigarettes. During the application, gloves and glasses should be used, and eye and skin contact should be avoided. In case of contact of the material with eyes and skin, it should be rinsed with plenty of water and a doctor should be consulted immediately. There must be sufficient air circulation in the application area. The cured material must be protected with a drainage board prior to filling. When additional (optional) thermal insulation is required, an insulation board (XPS, EPS, PUR, etc.) should be placed on YAPSEAL © BITUMENT PU 2C, and then a drainage board should be placed. YAPSEAL © BITUMENT PU 2C is slippery when wet. In order to create a non-slip surface, the material should be sprinkled on the surface with suitable aggregate while it is still wet. Low temperatures prolong the curing time, high temperatures accelerate curing. High humidity can affect the surface appearance.

Consumption

1.5–2.0 kg/m² – for a thickness of 2 mm (two coats)

If applying a single coat, a minimum thickness of 2 mm must be achieved with a consumption of 1.5–2.0 kg/m².

Packing

Component A: 20 kg Metal Bucket

Component B: 20 kg Metal Bucket

Storage and Shelf Life

It should be stored in a clean, dry and moisture-free environment between +50C and +350C, away from direct sunlight. It must be protected against water, frost and severe weather. It should be stored in stacks of no more than 3 layers. Provided that the specified storage conditions are complied with, the storage life is a maximum of 12 months from the date of manufacture.

Safety Precaution Information

First of all, all necessary Occupational Health and Safety measures should be taken in the areas where the application will be made and the procedures should be carried out by people who have technical knowledge and equipment. Occupational Health and Safety instructions must be followed in all works. In accordance with the Occupational Health and Safety instructions, it is obligatory to use all occupational safety equipment such as work clothes, protective gloves/goggles/masks during the application. For more information, the Material Safety Data Sheet (MSDS) should be reviewed. In addition, the application of the product; It should be done by people with sufficient technical knowledge, equipment and experience. The responsibility in this regard belongs exclusively to the user.

Responsibility

All information provided in this information sheet is advisory. All products should be used by people with technical knowledge and equipment, taking into account the recommendations. Any consequences that may occur during or after all use YAPKİM Yapı Kimya San. A.Ş. cannot be held responsible. This document is valid until a new one is issued and invalidates the old editions. YAPKİM Yapı Kimya San. A.Ş. may make changes in the nature of the product. It is imperative to take safety precautions during product use. These measures are not just those listed above, and it is the sole responsibility of the user to take all security measures.

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