

BITUVER CALIFORNIA-P



SRI 104%

Single-component elastoplastic paint with high **SRI**.

Ideal for surfaces in cement, fibre reinforced cement, wood, metal and in particular on bituminous membranes.

High reflectance and **emission**, long-lasting over time, achieved thanks to a particular composition of the paint. This characteristic provides significant advantages for the buildings' summer dwelling comfort and energy savings.

Advantages and characteristics

- Ensures effective protection against U.V. rays and atmospheric agents.
- High-reflection sunlight barrier, reducing the temperature on the external surface
- Reduces energy consumption in summer cooling
- Improves the performance and the efficiency of photovoltaic panels
- Extends the life of bituminous mantles
- Outstanding adherence and elasticity
- Ease of application
- Stable colouring over time
- Low maintenance, does not need additional protection
- Odourless and non-flammable
- Non-toxic, solvent free

Supports:

- Bituminous membranes
- Heat waterproofing with oxidised bitumen and cold waterproofing with stabilised bituminous emulsions
- Surfaces in concrete, fibre reinforced concrete, wood and metallic surface, plasters, flat or curved tiles.

Consumption

The application must include at least two coats to give the waterproofing layer a uniform colour, using a total of about 300 gr/m² on the smooth aged membrane.

For slate membranes or particularly porous surfaces, consumption may increase to about 700 gr/m². Provide three coats per membrane with TEX finishing.

Preparation of the surface and application

- Ensure that all the detaching, crumbling or non-adhering parts are removed, as well as paint, rust, dust and release agents and carefully clean the surfaces which must be solid and dry;
- Before application, the solidity and effectiveness of the rain water run-off points should be checked;
- The paint must be protected from the rain, dew and fog until it is completely dry. Humidity and low temperatures extend the times;
- Avoid standing water.
- Application with paintbrush, brush, roller or spray;
- Mix the product before application;
- As a first coat, apply California-P diluted up to 10% with water;
- The second and any subsequent coats should be applied as-is or with 5% dilution and must be applied only on the film when it is perfectly dry (after at least 6 hours) and preferably criss-crossed with respect to the previous coat;
- Waiting time of the application on freshly waterproofed surfaces: about 3 months;
- The bituminous membranes surface-finished with unwoven fabric (Tex) in synthetic material allow immediate painting, but application must include more than 2 coats in order to obtain a sufficient covering effect;
- After use, clean the tools with water and, should the product be dried, we recommend removing it with hot water or with the most common synthetic thinners.

Warnings

We recommend applying the product with ambient temperatures between +5°C and +35°C and when there are no weather conditions of fog, rain or frost forecast, in any case avoiding situations of extreme cold and hot even during drying. Do not apply on very hot surfaces because the paint filming process would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the support.

During the winter, you should consider finishing the application in the early hours of the afternoon in order to allow correct filming of the paint (in any case, days that are too humid should always be avoided). Remember to avoid spreading the product on freshly applied bituminous surfaces which could still release hydrocarbons and cause film adherence problems on the sheath. It can be walked on occasionally in the event of sporadic maintenance.

Do not use for surfaces or containers of comestible liquids, for potable water or that may come into contact with solvents or mineral oils.

Do not paint tanks, cellars or channels subject to strong water counter-thrust or water under pressure. To maintain the reflectance - and therefore the efficiency - high, we recommend periodic maintenance on the surfaces with visual inspection and dirt removal using a power washer.

It can be walked on occasionally in the event of sporadic maintenance. For more information request the material safety data sheet.

Protect from frost. Do not expose the packages to a temperature lower than +5°C. Once frozen, the product can no longer be recovered.

REFLECTANCE, EMISSION, SRI

Solar reflectance (R) ¹ ASTM E903	83%
Thermal emission (E) ¹ ASTM C1371	90%
Solar Reflectance Index (SRI) ¹ ASTM E1980	hc= 5 W/(m ² K) = 105%
	hc=12 W/(m ² K) = 104%
	hc=30 W/(m ² K) = 104%

¹ EELab Dept. of Mechanical and Civil Engineering test report • University of Modena and Reggio Emilia

GENERAL SPECIFICATIONS

Appearance	Thixotropic fluid paste	
Colour	White	
Stability in the original closed containers	12 months	
pH	7 - 8.5	
Dry residue at 130°C:	EN ISO 3251	66% - 72%
Brookfield viscosity 20°C (5 - 10 rpm)	EN ISO 3219	6,000 cP 3 1,200
Specific gravity at 20°C	EN ISO 2811-1	1.50 kg/l 3 0.05
Drying time	30' - 60'	

PERFORMANCE CHARACTERISTICS (UNI EN 1504-2:2005 - C COVERINGS - PI MC IR)

CO2 Permeability	EN 1062-6	S _D > 50 m
Aqueous vapour permeability	EN ISO 7783	Class I - SD < 5 m
Capillary absorption and water permeability	EN 1062-3	w < 0.1 Kg/m ² ·h ^{0,5}
Direct tensile adherence strength	EN 1542	≥ 1 N/mm ²

*Values recorded with temperature of 23°C and humidity at 50%. The information provided may vary depending on the thickness of the product applied and the specific job site conditions: temperature, humidity, ventilation, absorbency of the base.

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