

GRADA LBS 1000

**Polymer Modified Bitumen Rubber, High Elastic,
UV-Resistant, One Part Waterproofing Coating**



DESCRIPTION OF PRODUCT

GRADA LBS 1000 is rubber modified bitumen emulsion based, one component, pasty consistency, high durability, ready to use, thick waterproofing coating.

Complies with EN 15814

FIELDS OF APPLICATION

For vertical and horizontal applications
For positive waterproofing applications
For foundations and curtain walls (Tanking)
For waterproofing of retaining walls
For bonding of insulation boards (Perimeter insulation)
For waterproofing of flowerpots
For metal roof and roof valley.

FEATURES AND BENEFITS

Suitable for horizontal and vertical applications.
Bridges shrinkage cracks with its elastic behavior.
Easy to prepare and use.
Longer pot life for extended workability.
Resistant to freeze thaw cycle.
Resistant to bacterial attacks, salts and acids in the soil.
Easy to apply with brush.

APPLICATION PROCEDURE

Preparation of Substrate

Application substrate must be dry, sound, mainly smooth, clean and fine pored, free from honey combs, voids, cracks, ridges, dust, tar, pitch forming oil, old paint and other bond breaking residues. Wooden or iron wedges must be removed from the surface and active water leakages must be prevented. Voids and hollows must be filled. On vertical and horizontal corners fillet with min. 4 cm radius must be applied. Priming the substrate with diluted GRADA LBS 1000 mixture is highly recommended.

Mixing

Ready to use product, however mixing before use is recommended to get homogenous consistency.



Plastic case



Priming



Horizontal Application

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APPLICATION

Primer Application

Mix the material as described. Take enough amount of material and dilute 1:3 or 1:5 of water depending on the substrate absorbency. Mix with 400-600 rpm electric drill until lump free, homogenous consistency obtained. Apply equally on the substrate with a brush and do not allow accumulation on horizontal surfaces. Wait until the primer sufficiently cured before the first coat application. Apply GRADA LBS 1000 with brush or spray equipment with the consumption mentioned on the coverage table.

Protection of the Coating

Wait until the waterproofing coating sufficiently cured before backfilling the excavation. GRADA LBS 1000 must be protected from damages during the backfilling with a suitable drainage or heat insulation boards. Sharp stones, rubbles and etc. are not suitable for excavation backfilling.

TECHNICAL PROPERTIES

Properties

| | |
|--------------------------------|----------------------------|
| A Component | : Polymer modified bitumen |
| Colour | : Brown to black. |
| Density | : 1,20 kg/l |
| Solid Content | : 70 % |
| Application Temperature | : +5 °C 35 °C |
| Service Temperature | : -20 °C 200 °C |
| Curing | : 3 hr |
| Drying | : 2-5 Days |

WATCH POINTS

- Wait for the appropriate ambient and substrate temperature if it is less than 5 °C or more than 35 °C.
- Do not apply GRADA LBS 1000 under the rain or prediction of rainy weather.
- Application must be protected from direct sun-light, wind, frost or rain in 24 hours.
- Working times of cement and bitumen emulsion based systems are affected from environmental and surface temperatures, and relative humidity in the air. In low temperatures the reaction slows down, and this increases working period and working time. High temperatures accelerate the reaction and the periods stated above decrease depending on this. In order to complete the curing of material, environmental and surface temperatures must not decrease below the minimum allowed temperature.
- Areas that are not fully cured must not be exposed to water.
- Coating has to be applied on the surfaces of structure or structure parts that contact with water.
- GRADA LBS 1000 must be used within 1 hour after mixing.
- Do not GRADA LBS 1000 inside the potable water tanks and swimming pools.

CLEANING OF TOOLS

Clean the tools and equipments with warm soapy water after the application. Once GRADA LBS 1000 is cured, it can only be mechanically removed from the surface by using a suitable Solvent.



Use the equipment

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PACKAGING

20 Kg Set , 30 Kg Set, 200 Kg Barrel

STORAGE

Store in cool and dry conditions protected from frost. In short-term storage, maximum 2 palettes can be stored on top of each other and delivery must be according to first in first out system. In long-term storage, do not store palettes on top of each other.

SHELF LIFE

12 months after the production date under appropriate storing conditions. GRADA LBS 1000 may freeze under 0°C. Tightly seal the cover of the opened pails and do not store more than one week.

HEALTH AND SAFETY PRECAUTIONS

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.



QR Code for Safety Data Sheet

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. GRADA Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. GRADA Yapı Kimyasalları A.Ş. is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

PERFORMANCE

| TEST | STANDART | CRITERION | RESULT |
|--|---------------------|---|-----------------|
| Watertightness | EN 15820 | Period: 72 hr Water Pressure: 0,75 Bar Dry film thickness \geq 4 mm (Without glass fiber mesh) | W2B |
| Crack Bridging Ability | EN 15812 | Crack : \geq 2mm | CB2 |
| Flexibility at Low Temperature | EN 15813 | Period:1 hr Temp.: 0 °C | Pass |
| Dimensional stability at high temp. | EN 15818 | Period:1 hr Temp.: 70 °C | Pass |
| Water Resistance | EN 15817 | 28 Days in water | Pass |
| Rain Resistance | EN 15816 | 24 hr | R1 |
| Thickness when fully dried | EN 15819 | \leq %50 | Pass |
| Reaction to fire | EN 13501-1 | Euroclass | E |
| Elongation at Break | ISO 37 | | \approx %1000 |
| UV Resistant | MIL-STD-810G | 2 Year Ageint | Pass |