

GRADASEAL BT 2K

Polymer Modified Bitumen Rubber, Two Parts Waterproofing Coating

DESCRIPTION OF PRODUCT

GRADASEAL BT 2K is cement and modified bitumen emulsion based, two parts, pasty consistency, high durability 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

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 GRADASEAL BT 2K mixture is highly recommended.

Mixing

Add part B slowly into part A (in the pail) while mixing with 400-600 rpm electric drill. Mix at least 3-5 minutes until homogenous, lump free, pasty consistency obtained. Wait for 3-5 minutes and mix again about 30 seconds to make ready for application. Mix as much material as can be applied within the pot life.



Plastic case



Mix with 400-600 rpm



Priming



1. Layer Application

GRADASEAL BT 2K

Polymer Modified Bitumen Rubber, Two Parts Waterproofing Coating

TECHNICAL PROPERTIES

Properties

A Component	: Polymer modified bitumen
B Component	: Cement based powder
Colour	: Brown to black.
Density (A / A+B)	: 1,04 kg/l / 1,13 kg/l
Solid Content (A / A+B)	: 62 % / 72%
Application Temperature	: +5 °C 35 °C
Service Temperature	: -20 °C 80 °C
Mixing Ratio (A/B)	: 22+8
Curing	: 3 hr
Pot Life	: 2 hr
Drying	: 2-5 Days

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 GRADASEAL BT 2K 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. GRADASEAL BT 2K 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.

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 GRADASEAL BT 2K 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.
- GRADASEAL BT 2K must be used within 1 hour after mixing.
- Do not GRADASEAL BT 2K inside the potable water tanks and swimming pools.



2. Layer Application



Protection of the Coating



Use the equipment

GRADASEAL BT 2K

Polymer Modified Bitumen Rubber, Two Parts Waterproofing Coating

CLEANING OF TOOLS

Clean the tools and equipments with warm soapy water after the application. Once GRADASEAL BT 2K is cured, it can only be mechanically removed from the surface by using a suitable Solvent.

PACKAGING

22+8 Set Part A: Plastic bucket Part B: Polyethylene bag

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. GRADASEAL BT 2K 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.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. BTİ Bitüm Teknik İzolasyon San. ve Dış Tic. Ltd. Şti is only responsible for the quality of the product. BTİ Bitüm Teknik İzolasyon San. ve Dış Tic. Ltd. Şti 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.

 EN 15814 2164	 GRADA YAPI KİMYASALLARI www.grada.com.tr	<table border="1"><tr><td>Waterproofing</td><td>W1</td></tr><tr><td>Crack Bridging Ability</td><td>CB 2</td></tr><tr><td>Water Resistance</td><td>Pass</td></tr><tr><td>Low Temperature Flexibility</td><td>Pass</td></tr><tr><td>High Temperature Stability</td><td>Pass</td></tr><tr><td>Reaction to Fire</td><td>E</td></tr><tr><td>Compression Resistance</td><td>C 0</td></tr><tr><td>Durability</td><td>Pass</td></tr><tr><td>Rain Resistance</td><td>R1</td></tr><tr><td>Decrease in layer thickness at full drying</td><td>Pass</td></tr></table>		Waterproofing	W1	Crack Bridging Ability	CB 2	Water Resistance	Pass	Low Temperature Flexibility	Pass	High Temperature Stability	Pass	Reaction to Fire	E	Compression Resistance	C 0	Durability	Pass	Rain Resistance	R1	Decrease in layer thickness at full drying	Pass
		Waterproofing	W1																				
Crack Bridging Ability	CB 2																						
Water Resistance	Pass																						
Low Temperature Flexibility	Pass																						
High Temperature Stability	Pass																						
Reaction to Fire	E																						
Compression Resistance	C 0																						
Durability	Pass																						
Rain Resistance	R1																						
Decrease in layer thickness at full drying	Pass																						
POLYMER BITUMEN BASED THICK WATERPROOFING MATERIAL 16 GRADASEAL BT 2K 0001-DoP-2016/05/02 CPR-PTD/R16-20 TS EN 15814+A2:2015 GRADASEAL BT 2K																							