

# GRADASEAL BT 2C

Polymer Modified Bitumen Rubber,  
Two Parts Waterproofing Coating

## Product Technical Document

### DESCRIPTION OF PRODUCT

**GRADASEAL BT 2C is cement and modified bitumen emulsion based, two parts, pasty consistency, high durability waterproofing coating.**

### 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 2C 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*

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## 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)	: 63 %
Application Temperature	: +5 °C 35 °C
Service Temperature	: -20 °C 80 °C
Mixing Ratio (A/B)	: 22+8 (24+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 2C 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 2C 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.

## WATCHPOINTS

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



2. Layer Application



Protection of the Coating



Use the equipment

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### CLEANING OF TOOLS

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

### PACKAGING

**22+8 Set (24+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 2C 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.

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