MasterJoint™ 665

Bitumen-Rubber Based, One-Component Waterproofing Material

Material Description

MasterJoint™ 665 is rubber modified bitumen emulsion based, one component, pasty consistency, high durability, ready to use, thick waterproofing coating.

Complies with EN 15814

Areas of Application

- For vertical and horizontal applications
- For tanking soil covered foundations and curtain walls.
- For waterproofing of retaining walls.
- For bonding of insulation boards. (Perimeter insulation).

Characteristics and Benefits

- Suitable for horizontal and vertical applications.
- Bridges shrinkage cracks with its elastic behaviour
- Ready to use
- Solvent free
- Longer pot life for extended workability
- Resistant to freeze thaw cycle
- Resistant to bacterial attacks, salts and acids in the soil.

Processing Method

(A) 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 with **MasterJoint™ 591**. Voids and hollows must be filled with **MasterJoint™ 591** or **MasterCrete™ S88 C**. On vertical and horizontal corners fillet with min. 4 cm radius must be applied. Priming the substrate with diluted **MasterJoint™ 665** mixture is highly recommended.

(B) Mixing

Since MasterJoint™ 665 is a single component, it is gently mixed with a 400-600 rpm mixer before use. The material becomes ready for use.

(C) Processing

Primer Application

- MasterJoint™ 665 is ready for use and can be applied by spraying machine.

Technical Properties	
Structure of the Material	Rubber Modified Bitumen Emulsion
Color	Brown (after drying: black)
Consistency	Pasty
Density of Mixture	1,10 kg/lt
Substrate Temperature	+5°C +30°C
Temperature Resistance (after curing)	-20°C +80°C
Exposureto Water	~48 Hours
Open (Working) Time	~2 hour
Curing Time	~24 hours

The above values are based on +23°C and 50% relative humidity; higher temperatures shorten the time, lower temperatures lengthen it.

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- **MasterJoint™ 665** is mixed as described. Take 1 kg of material from the mixture and add ~5 litres of water. Mix with a 400-600 rpm mixer for 3-5 minutes until a homogenous mixture is obtained. The material should be evenly distributed with a suitable brush and applied on horizontal surfaces without allowing ponding. Wait for the primer to dry and proceed with the application.
- **MasterJoint™ 665** is applied in two coats with a consumption of 1,50 kg/m^2. If the application is made with a triangular toothed marley trowel, the first coat should be applied with the toothed part and the second coat should be applied parallel to the first application with the flat side of the trowel.
- Cold joints, corners and edges should be reinforced with mesh when the first coat is fresh.
- On sloping areas, the second coat should be applied after the first coat has fully cured and is walkable.
- **MasterJoint™ 665** is economical to use with a spraying machine (1,50 kg/m^2 per coat, two coats) if the application is made on projects larger than 200 m^2. Two coats should always be applied to obtain a uniform thickness.
- Thermal insulation boards can be adhered on the cured material after 24 hours at the earliest by using the point bonding technique with **MasterJoint™ 665**.
- In case of application on sloping areas, it can be protected with geotextile felt after approximately 5 days and screed can be applied on it (floating screed).

Protection of the Coating

Foundation trench backfilling should not be carried out until the coating has dried satisfactorily. **MasterJoint™ 665** should be protected from impact during backfilling with suitable drainage plates and thermal insulation boards before backfilling. Drainage plates should be connected to the drainage pipes to drain the water that may fill into the foundation pit. Materials such as quarry stone, excavation waste and construction rubble are not suitable for filling the foundation pit.

Consumption

MasterJoint™ 665 should be applied in two coats. Consumption is 1,50 kg/m^2 for each coat, totalling 3 kg/m^2. Wet film thickness of **MasterJoint™ 665** in two coats is 3 mm and dry film thickness is 1,80 mm.

Point to Consider

- Wait for the appropriate ambient and substrate temperature if it is less then 5°C or more than 30°C.
- Do not apply **MasterJoint™ 665** 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.
- **MasterJoint™ 665** must be used witnin 1 hour after mixing.
- Do not use **MasterJoint™ 665** inside the potable water tanks and swimming pools.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. Once **MasterJoint™ 665** is cured, it can only be mechanically removed from the surface by using a suitable solvent.

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Packaging

MasterJoint™ 665 is available in a 30 kg plastic pails

Shelf Life

24 months after the production date under appropriate storing conditions. **MasterJoint™ 665** may freeze under 0ºC. Tightly seal the cover of the opened pails and do not store more than one week.

Storage

Store in cool and dry conditions protected from frost. Palettes should not be placed on top of each other and the shipment should be made on a first come first go basis.

Health and Safety

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. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret 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.

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Polimer Modifiye Edilmiş Bitümlü Kaplama Su Yalıtım Ürünü
Polymer Modified Bituminous Thick Coating Waterproofing Product

Su Geçirimsizlik Watertihgtness	Sınıf W1 Class W1
Çatlak Köprüleme Kabiliyeti Crack Bridging Ability	Sınıf CB 2 Class CB 2
Su Direnci Water Resistance	Geçer Pass
Düşük Sıcaklıklarda Esneklik Flexibility at Low Tempreture	Geçer Pass
Yüksek sıcaklıklarda Boyutsal Kararlılık Dimensional Stability at High Temperature	Geçer Pass
Yangına Karşı Tepki Reaction to Fire	E Sınıfı Class E
Yağmur Dayanımı Resistance to Rain	Sınıf R1 Class R1
Sıkıştırmaya Karşı Direnç Resistance to Compression	Sınıf C0, Gerekli Değil Class C0, no requirements
Dayanıklılık Durability	Geçer Pass