

MasterJoint™ 694

Polymer Modified Bitumen Rubber Based, Two Parts Waterproofing Coating

Material Description

MasterJoint™ 694 is cement and modified bitumen emulsion based, two parts, brush consistency, high durability waterproofing coating.

Complies with EN 15814

Areas of Application

- Outdoor areas 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

Characteristics and Benefits

- Suitable for horizontal and vertical applications.
- Bridges shrinkage cracks with its elastic behaviour.
- 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 trowel and brush.
- Solvent free and environment friendly.

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™ 694** mixture is highly recommended.

(B) Mixing

Add Part B slowly into Part A (in the plastic pail) while mixing with 400-600 rpm electric drill. Mix at least 3-5 minutes until homogenous, lump free, paste

Technical Properties

Structure of the Material MasterJoint™ 694 Part A MasterJoint™ 694 Part B	Rubber and Polymer Modified Bitumen Emulsion Dry Mixture of Special Cement and Sand	
Color	Brown (after drying: black)	KR
Consistency	Brush Consistency	
Density of Mixture	1,02 kg/ltr	
Application Ground Temperature	+5°C +30°C	
Service Temperature	-20°C +80°C	
Exposure to Water	~48 Hours	
Open (Working) Time	~1 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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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.

Mixing Ratio

MasterJoint™ 694	Part A	Part B
Mixture Water	24 kg	8 kg
Density of Mixture	1,02 kg/liter	

(C) Processing

Primer Application

Mix the material as described. Take enough amount of material and dilute 1:2 or 1:4 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 for the primer to dry and proceed with the application.

Coating Application

MasterJoint™ 694 A and B components are mixed. Apply the amount of product specified in the consumption table according to the ambient conditions to be applied with the help of a brush.

Protection of the Coating

Wait until the waterproofing coating sufficiently cured before backfilling the excavation. **MasterJoint™ 694** 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.

Consumption

Consumption per m ²	32 kg set
~3,00 kg/m ²	~10.6 m ²

Point to Consider

- Wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 30°C.
- Do not apply **MasterJoint™ 694** under the rain or prediction of rainy weather.
- Application must be protected from direct sunlight, 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™ 694** must be used within 1 hour after mixing.
- Do not use **MasterJoint™ 694** 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™ 694** is cured, it can only be mechanically removed from the surface by using a suitable solvent.

Packaging

MasterJoint™ 694 is available in a 32 kg set.

Part A: 24 kg plastic bucket

Part B: 8 kg tin polyethylene bag

Shelf Life

24 months after the production date under appropriate storing conditions. **MasterJoint™ 694** may freeze under 0°C. Tightly seal the cover of the opened pails and do not store more than one week.

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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.

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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TS EN 15814	
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MasterJoint™ 694	
Polimer Modifiye Edilmiş Bitümlü Kaplama Su Yalıtım Ürünü Polymer Modified Bituminous Thick Coating Waterproofing Product	
Su Geçirimsizlik Watertightness	Sınıf W1 Class W1
Çatlak Köprüleme Kabiliyeti Crack Bridging Ability	Sınıf CB 1 Class CB 1
Su Direnci Water Resistance	Geçer Pass
Düşük Sıcaklıklarda Esneklik Flexibility at Low Temperature	Geçer Pass
Yüksek sıcaklıklarda Boyutsal Kararlılık Dimensional Stability at High Temperature	Geçer Pass
Yangına Karşı Tepki Reaction to Fire	E Sınıfı Class E