

MasterSeal® 694 (Formerly known as Masterseal® 494)

Polymer Modified Bitumen Rubber, Two Parts Waterproofing Coating

DESCRIPTION OF PRODUCT

MasterSeal® 694 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 with MasterSeal® 591. Voids and hollows must be filled with MasterSeal® 591 or

TECHNICAL DATA

Malzemenin Yapısı MasterSeal® 694 Bileşen A MasterSeal® 694 Bileşen B	Kauçuk ve Polimer Modifiye Bitüm Emülsiyon Özel Çimento İçeren Kuru Karışım	
Renk	Kahverengi (kuruduktan sonra siyah)	KR
Kıvam	Fırça Kıvamı	
Karışım Yoğunluğu	1,02 kg/lt	
Uygulanacak Zeminin Sıcaklığı	+5°C +30°C	
Servis Sıcaklığı	-20°C +80°C	
Su ile Temas Süresi	48 saat	
Kullanma Süresi	-1 saat	
Kürlenme Süresi	24 saat	

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.

MasterEmaco® S 488. On vertical and horizontal corners fillet with min. 4 cm radius must be applied. Priming the substrate with diluted MasterSeal® 694 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.

Mixing Ratio

MasterSeal® 694	Part A	Part B
Mixture Water	24 kg	8 kg
Density of Mixture	1,02 kg/lt	

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 MasterSeal® 694 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. MasterSeal® 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.

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COVERAGE

Consumption per m ²	32 kg pail
~3,00 kg/m ²	~10,6 m ²

WATCH POINTS

- Wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 30°C.
- Do not apply **MasterSeal® 694** 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.
- **MasterSeal® 694** must be used within 1 hour after mixing.
- Do not use **MasterSeal® 694** inside the potable water tanks and swimming pools.

CLEANING OF TOOLS

Clean the tools and equipments with warm soapy water after the application. Once **MasterSeal® 694** is cured, it can only be mechanically removed from the surface by using a suitable solvent.

PACKAGING

32 kg set
Part A: 21 kg plastic bucket
Part B: 7 kg 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

24 months after the production date under appropriate storing conditions. **MasterSeal® 694** 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. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret 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.

CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.

Adres: Barbaros Mah. Begonya Sok.

Nidakule Kuzey Ataşehir, C Kapısı

No:3 E/5, 34746 Ataşehir İstanbul / Türkiye

Tel: 0216 217 88 00

Mail: mbs.tr@mbcc-group.com

Web: www.master-builders-solutions.com/tr-tr

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Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 DOP NO: 03.15814.001 EN 15814:2011+A2:2014 MasterSeal 694	
Zemin altı yapılarda binaların su yalıtımı için kullanılan polimer modifiye bitümlü kalın kaplamalar (PMBC) (Polymer modified bituminous thick coatings (PMBC) used for the waterproofing of buildings in below ground structures)	
Su Geçirmezlik (Watertightness)	Sınıf W1 (Class W1)
Çatlak Köprüleme Yeteneği (Crack Bridging Ability)	Sınıf CB 2 (Class CB 2)
Suya Dayanımı (Water Resistance)	Geçti-Suda renklenme yok ve dolgudan ayrılma olmaz (Passed- No colouration of the water and No debonding from inlay)
Düşük sıcaklıkta esneklik (Flexibility at Low Temperature)	Geçti-Çatlak yok (Passed - No cracks)
Yüksek Sıcaklıkta boyutsal kararlılık (Dimensional stability at high temperature)	Geçti-Kayma veya akıtma yok (Passed-No sliding or draining down)
Su geçirmezliğin dayanıklılığı ve yangına tepki (Durability of watertightness and reaction to fire)	Geçti (Passed)
Yangına tepki (Reaction to fire)	E