MasterJoint™ PRI 691

Single Component Polyurethane Based Adhesion Primer

Material Description

MasterJoint™ PRI 691 is a fast curing, single component, moisture curing, clear polyurethane or polyurea adhesion promoting primer. **MasterJoint™ PRI 691** contains solvent.

Areas of Application

- **MasterJoint™ PRI 691** is designed for use as an adhesion promoting primer on **MasterJoint™** membranes. Its uses include the application of a new membrane to an aged membrane e.g. in repair applications.
- It can also be used on aged membranes when renewing or repairing the UV protective top coat.
- **MasterJoint™ PRI 691** can also be used as a primer on sand broadcast epoxy primers prior to the application of a spray applied membrane in applications where the membrane is permanently exposed to water.

Characteristics and Benefits

- Excellent adhesion to aged membranes especially in applications where the membrane is permanently exposed to water
- Rapid cure
- Low viscosity
- Easy to apply

Processing Method

(A) Preparation of Substrate

All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner. A damp proof course should be installed properly and be inact. The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3 K above the current dew point.

(B) Processing

MasterJoint™ PRI 691 is a single component material. Prior to application, it should be conditioned to a temperature of 15°C to 25°C. Pour the amount required from the original container and apply by spreading with a squeegee followed by back rolling. It is important to apply **MasterJoint™ PRI 691** thinly and to avoid ponding. The curing time of the material is influenced by the humidity and the ambient and substrate temperatures. **MasterJoint™ PRI 691** is air

Technical Properties	
Structure of the Material	Polyurethane
Colour	Brownish
Solids Content	%55
Density	1,00 kg/liters
Application Ground Temperature	+10°C +35°C
Re-coating Interval/Ready for Traffic (+10°C - %50 relative humidity) (+20°C - %50 relative humidity) (+30°C - %50 relative humidity)	 min. 3 hours – max. 36 hours min. 2 hours – max. 24 hours min. 1 hours – max. 18 hours

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

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curing and will foam if applied too thickly. It is, therefore, important to apply **MasterJoint™ PRI 691** thinly and to avoid ponding. Apply uniformly and finish by back rolling. The curing time of the material is influenced by the humidity and the ambient and substrate temperatures.

Consumption

The consumption of **MasterJoint™ PRI 691** is 0.08 - 0.10 kg/m^2 depending on the condition and porosity of the substrate.

Point to Consider

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10ºC or above +35ºC.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the layer product, the packages should be preconditioned to +20ºC - +25ºC to become ready to use.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/ or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.
- Permissible relative humidity 40%-90%.
- Epoxy and polyurethane/ polyurea based floor coatings should be applied by specialists.
- **MasterJoint™ PRI 691** as ready-to-use kits. No solvent etc should be added during application.
- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

Cleaning of Tools

All the tools and equipments must be cleaned by solvent after the application. After **MasterJoint™ PRI 691** is hardened, it can only be removed from the surface mechanically.

Packaging

5.5 kg plastic bucket

Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

Storage

Must be stored in between +5 ºC and +25 ºC, unopened original packing, and in cool and dry environment protected from freezing. Delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages

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should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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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MasterJoint™ PRI 691
İç mekan kullanımına uygun reçine kaplama harcı **Resin screed mortar for indoor use**

Aşınma Direnci Wear resistance	NPD
Bağ Dayanımı Bond strength	B1.5
Çarpmaya Direnç Impact resistance	NPD
Aşındırıcı maddelerin salınımı Release of corrosive substances	SR
Yangına Karşı Tepki Reaction To Fire	E_{fl}
Tehlikeli maddeler (Dangerous substances)	Güvenlik bilgi formu Safety data sheet