

MasterJoint® PRI 640

Single Part Polyurethane Primer for Absorbent Substrates Prior to Application of MasterJoint® PR 640

Material Description

MasterJoint® PRI 640 is a single part, solvent containing, polyurethane based primer for absorbent surfaces before **MasterJoint® PR 640** application.

Areas of Application

- Indoor and outdoor application
- Terraces
- Balcony
- Roofs

Characteristics and Benefits

- Single part product that allows simple application without the need of mixture.
- Excellent adhesion.
- Excellent penetration and sealing of pores of concrete.
- Fast curing.
- Elasticity to absorb substrate movements.
- Water and frost resistant.

Processing Method

(A) Preparation of Substrate

All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean of oil, grease, paint stains and other adhesion impairing contaminants.

(B) Mixing

MasterJoint® PRI 640 must be mixed before application.

(C) Processing

- **MasterJoint® PRI 640** is ready to use and is applied to a dry surface in one coat using a suitable roller.
- Large cracks on the surface should be filled with **MasterCrete® S88 C** or **MasterFlux® ER 402**. Movement cracks and joints should be filled with **MasterJoint® NPRI 474** polyurethane sealant. Then, apply primer at a consumption rate of 0.15-0.30 kg/m² per square meter.

Technical Properties

Structure of the Material	Polyurethane, pre-polymer, Solvent Based
Color	Transparent
Application Temperature (Support and Material)	From +5°C to + 35°C
Permissible Moisture on The Surface	Max. 4%
Re-coating Interval	2- 3 hours
Touch Dry	45 min.
Service Temperature	From -20°C to + 80°C
Adhesion to Concrete	>2,5 N/mm ²

Hardening times are measured at 22°C and 65% R.H. Higher temperatures and/or higher R.H. can shorten these times

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Consumption

Approximately 150 to 300 grams per square metre are required per layer according to surface.

Point to Consider

For best performance:

- The product must not be applied when the temperature is below +5°C or above 35°C.
- The working and reaction times of polyurethane-based systems are affected by ambient and ground temperatures and relative humidity. Lower temperatures slow down the reaction, extending the shelf life and working time. Higher temperatures accelerate the reaction, shortening the times mentioned above. For the material to fully cure, ambient and ground temperatures must not fall below the minimum permitted temperature. Concrete surfaces to be applied must have a 28-day strength rating, a minimum compressive strength of 25 MPa, and a maximum moisture content of 4%.
- The first coat of MasterJoint™ PR 640 can be applied within 2-3 hours, not exceeding 24 hours, while the primer surface is still slightly tacky.
- Care should be taken to apply two coats of primer on fragile, porous surfaces such as lightweight concrete.
- It should not be applied on wet and damp surfaces.

Cleaning of Tools

All the tools and equipments must be cleaned by solvent after the application. After MasterJoint® PRI 640 is hardened, it can only be removed from the surface mechanically.

Packaging

20 lt tin

Shelf Life

12 months after the production date under appropriate storing conditions. MasterJoint® PRI 640 may freeze under 0°C.

Storage

The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15 °C and +25°C.

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 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 640	
TS EN 1504-2 Nem kontrolü 2.2, Fiziksel Direnç 5.1, Artan direnç 8.2 Moisture control 2.2, Physical Resistance 5.1, Increasing Resistivity 8.2	
Beton için yüzey koruma sistemleri Surface protection systems for concrete	
Kaplama uygulaması Coating application	
Su Buharı Geçirgenliği (Permeability to water vapour)	NPD
Kapiler Su emme ve Su geçirgenliği (Capillary absorption and permeability to water)	$w < 0,1 \text{ kg./m}^2 \cdot \sqrt{\text{h}}$
Çekip koparma deneyi (Adhesion strength by pull-off test)	Rijit Sistemler (trafik yükü ile) $> 2,0 \text{ N/mm}^2$ Rigid Systems (with trafficking)
Yangına karşı tepki (Reaction to fire)	E
Tehlikeli maddeler (Dangerous substances)	Madde 5.4'e uygun (Comply with clause 5.4)

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