MasterJoint™ PRI 625

Solvent Free, Two Component, Epoxy Based Primer for Dry, Damp and Wet Substrates

Material Description

MasterJoint™ PRI 625 is an epoxy based, two component, low viscosity primer for use on dry, damp and wet concrete and cementitious mineral substrates.

Complies with TS EN 13813 and TS EN 1504-2

Areas of Application

- With the addition of the appropriate amount of silica sand, it can be used as a repair mortar.
- As a primer under **MasterCoat™** epoxy/ polyurethane floor coatings.
- As a primer under **MasterJoint™** polyurethane waterproofing systems.
- In order to block moisture and prevent risk of swelling on damp and wet concrete substrate.

Characteristics and Benefits

- Easy to apply.
- Tolerant to damp that raises from the floor.
- Penetrates to capillary holes within concrete structure hence blocks the holes.
- Provides excellent penetration and adherence on cement based substrates.
- Prevent swelling risk of coating materials on damp concrete substrate.
- Prevent pinholes on surface of resin based waterproofing materials at damp interior areas.

Processing Method

(A) Preparation of Substrate

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm² (tested with an approved pull-off tester at a load rate of 100 N/s).The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3°C above the current dew point.All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation

Technical Properties	
Structure of the Material **MasterJoint™ PRI 625** Part A **MasterJoint™ PRI 625** Part B	 Epoxy Resin Epoxy Hardener
Color	Clear
Mixed Density	1,06 kg/lt
Shore D Hardness	75
Compressive Strength (7 days)	≥30 N/mm^2
Flexurel Strength 7 days	≥5 N/mm^2
Bond Strength (concrete) (7 days)	≥1,50 N/mm^2
Ambient Temperature	+10^{0}C + 30^{0}C
Working Time	17-20 minutes
Traffic Ready	8 hours
Fully Cured	7 days

The above figures are valid for 23°C and intended as a guide only and should not be used as a basis for specifications.

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on the surfaces which absorbed oil should be removed with the usage of blastrack or rotatiger. Oil contaminated substrates should first be precleaned with an emulsifiying cleaning detergent according to supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressure water jet and excess water should be removed by a wet/dry vacuum cleaner.
If **MasterJoint™ PRI 625** is to be coated on a soil based substrates a layer against rising damp should be installed according to EN 15814 (or equivalent) standards. The windows, the doors and the roof should be already installed and closed.
MasterJoint™ PRI 625 can be applied on damp substrates. Residual water should be removed on wet surfaces; hence the surfaces should be cleaned by sponge, fabric or absorbing material. Take precaution on the sodden concrete substrates by air-conditioning. Please consult to **MBT Tech** Technical Service for detailed information.

(B) Mixing

MasterJoint™ PRI 625 is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to temperature of +15 - +25°C. Pour the entire contents of part B into the container of part A; make sure that there is no product left in the part B package. Scrape well the sides and the bottom of the container to ensure a through mixing. After mixing **MasterJoint™ PRI 625** parts for 3-4 minutes, pour the mix into a fresh container, set is aside for a while and mix for another minute. When **MasterJoint™ PRI 625** mixture is ready, oven dried silica can be added with a ratio of 1/0.5-1/2 if the surface is too porous. When 1/1 or 1/5 oven dried silica added, **MasterJoint™ PRI 625** can be used as a repair mortar.

Mixing Ratio

MasterJoint™ PRI 625	Part A	Part B
Mixing Ratio	10 kg	7,59 kg
Mixing Density	1,06 kg/lt	

*With 1/0.5 addition of even dried silica, **MasterJoint™ PRI 625** mix density reaches 1.60 kg/liter; With 1/5 s addition of oven dried silica, **MasterJoint™ PRI 625** mix density reaches 2.25 kg/ liters*

(C) Processing

MasterJoint™ PRI 625 A+B is applied to the prepared substrate by spreading with a squeegee. Oven dried silica (0.1-0.3 mm or 0.3-0.8 mm) is broadcast to the still wet primer in order to improve the adhesion of the following epoxy or PU coat.
With the addition of enough oven dried silica to **MasterJoint™ PRI 625** A+B an excellent repair mortar is obtain for both primed and coated surfaces. Mortar is spread with a trowel and oven dried silica (0.1-0.3 mm or 0.3-0.8 mm) is broadcast to the still wet primer.

Consumption

The Coverage of **MasterJoint™ PRI 625** A+B is between 0.3-0.5 kg/m² depending on the condition and the porosity of the substrate. The coverage generally vary on priming solutions.

Point to Consider

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10 or above +30°C.
- 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 product, the packages should be preconditioned to +20 - +25°C to become ready to use.
- Epoxy and polyurethane based floor coatings should be applied by specialists.
- Water pounding should not exist on concrete and cementitious surface before application, If there is occurred pounding, The substrates should be cleaned by floor squeegee.
- **MasterJoint™ PRI 625** is supplied in working packs which are pre-packaged in the exact ratio. No solvent should be added.
- Mixing should be done with a mechanical drill at 300 - 400 rpm with epoxy/polyurethane mixing paddles.

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- 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.
- DO NOT MIX BY HAND.
- After the first mix, contents should be poured into a clean container and mixed once again.
- 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 625** is hardened, it can only be removed from the surface mechanically.

Packaging

17.59 kg set
Part A: 10 kg drum
Part B: 7.59 kg drum

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 +35 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 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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