MasterJoint™ PR 881

Polyurethane Based, Two Component, Wear Coat, for Car Park Deck and Waterproofing Systems

Material Description

MasterJoint™ PR 881 is a wear coat for use in car park deck waterproofing systems. It is solvent free, 2-component polyurethane and is slightly thixotropic so that it can be applied to ramps without the on-site addition of a thixo- tropic as well as to horizontal surfaces.

Areas of Application

MasterJoint™ PR 881 is primarily intended for use in car park deck waterproofing systems.
MasterJoint™ PR 881 can also be used in other systems where its excellent mechanical properties can be used to advantage.

Characteristics and Benefits

- Excellent bond to MasterJoint™ PU/PUA waterproofing membranes
- Tenacious hold to broadcast aggregate
- Slightly thixotropic for application to ramps withstands loads imposed by traffic
- Resistant to fuels, battery acid and hydraulic oils
- Low consumption

Processing Method

(A) Preparation of Substrate

The preparation of the substrate and the use of the appro- priate primer are of paramount importance. All surfaces to which **MasterJoint™ PR 881** is applied should be sound, clean and dry and free from oil or grease, loose particles and any other substances which may impair adhesion. For substrate pre-treatment prior to the primer application see primer technical data sheet.

Teknik Özellikleri	
Structure of the Material **MasterJoint™ PR 881**	Polyurethane
Color	Grey
Mixing Ratio	100/48
Density	1,05 g/cm²
Viscosity:	1700 mPas
Working Time	25 min. (+20 ºC)
Tensile Strength	≥ 15 N/mm²
Elongation	≥ 40%
Shore D Hardness (28 days)	70
Permissible Relative Humidity	Max. 75 %
Re-coating Interval 10⁰C 20⁰C 30⁰C	 Min. 8 h. Min. 4 h. Min. 3 h.
Substrate and Ambient Temperatures	Min. +5°C Max. +30°C

The above figures are valid for 23°C- %50 humidity and intended as a guide only and should not be used as a basis for specifications.

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(B) Mixing

MasterJoint™ PR 881 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precon-dition both the A and B components to a temperature of approximately 15 to 25 °C.
Pour the entire contents of Part B into the container of Part
DO NOT MIX BY HAND. Mix with a mechanical drill and paddle at a low speed (approx. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensurecomplete mixing. Keep the mixer bladed fully submersed in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER. After proper mixing to a homogeneous consistency, pour the mixed Parts A and B into a clean container and mix for a further minute.

(C) Processing

MasterJoint™ PR 881 should be spread with a squeegee and finished by rolling.
The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application tem- perature should not fall below the minimum. Following application the material should be protected from direct contact with water for approx. 3 hours The temperature of the substrate must be at least 3 K above the dew point both during the application and for at least 3 hours after application (at 15°C).

Consumption

0,4 – 0,7 kg/m^2. In some countries the minimum thickness of the wear coat is defined. In these cases the consumption can be higher than the values quoted above.

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.

Point to Consider

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10 or above +30ºC.
- 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 +15ºC - +25ºC to become ready to use.
- Epoxy and polyurethane based floor coatings should be applied by approved applicators.
- 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 is 75% max
- DO NOT MIX BY HAND.
- **MasterJoint™ PR 881** is two components set. No solvent etc. should be added during application.

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- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

Cleaning of Tools

Used tools and equipment must be cleaned carefully with an appropriate solvent. Once cured **MasterJoint™ PR 881** can only be removed by mechanically.

Packaging

25 kg set
Part A: 16,90 kg tin
Part B: 8,10 kg tin

Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within one week.

Storage

Must be stored in between +15 °C and +25 °C, 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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