

MasterJoint® WP 305 (Yapfleks® 305)

Cement Based Polymer Reinforced Single Part Waterproofing Material

Material Description

MasterJoint® WP 305 is a cement based polymer reinforced single part rigid insulation material used on concrete curtains and cement based plasters, and applied from the inside or outside against leaking and normal pressure surface waters.

Complies with EN 1504-2

Areas of Application

- Indoors and outdoor areas for vertical and horizontal applications,
- In insulation of foundations,
- In supporting walls,
- In wet volumes like WC, bathroom, kitchen, and balcony,
- In small terraces,
- As waterproofing insulation material in small swimming pools and decorative pools.

Characteristics and Benefits

- Easy to prepare and apply.
- Applied by brush, trowel or spraying machine.

- Long working time.
- Water vapor permeable.
- Non-shrinking and non-cracking.

Processing Method

(A) Preparation of Substrate

Cement based surfaces that contact with water have to be strong, dry, bearing, dustless, clean, and also in balance. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence and no loose particles must be present. Iron and wooden wedges on the surface have to be removed, and active water leakages and spaces must be filled by **MasterJoint® 591** or **MasterCrete® S88 C** if present. Corners and sides must be beveled with minimum 4 cm radius bevels. Application surface has to be wetted well and then waited until it becomes wet/dry. If the coating material losses its water rapidly and turns dull, this means the surface is not wetted well or dried rapidly. In these instances where the weather is hot or materials are exposed to wind, mixture water can be increased for 10% just for the first layer.

Teknik Özellikleri		
Structure of the Material	Mineral Sealant, Polymer Modified Admixtures and Special Cement	
Color	Grey	
Rupture Strength	$\geq 1,00 \text{ N/mm}^2$	
Pot Life	2 hours	
Maturity Period	3 – 5 min.	
Period to Wait Before Opening to Service Mechanic Strength Water Water Impermeability	2 days 7 days	KR 
Application Ground Temperature	+5°C - +25°C	
Service Temperature	-20°C - +80°C	
Period to Wait Before Coating Its To By Plaster By Ceramic	3 days 3 days	

Yukarıdaki değerler +23°C'de ve %50 bağıl nem için verilmiştir. Yüksek sıcaklıklar süreyi kısaltır, düşük sıcaklıklar süreyi uzatır.

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(B) Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. MasterJoint® WP 305 is slowly added to the container and mixed with a 400 - 600 RPM mixer at least for 3-5 minutes until a homogenous and uniform mixture is obtained. After waiting for 3-5 minutes, the mixture is mixed again for approximately 30 seconds, and becomes ready to use.

Mixing Ratio

MasterJoint® WP 305	1 kg Powder	25 kg Bag
Mixing Water Ratio	~0,23 liter	~4,60 liter
Mixed Density	~1,98 kg/liter	

(C) Processing

Prepared MasterJoint® WP 305 mixture is applied by Thoro brush or trowel as two or three layers. Brush application direction in each layer must be perpendicular to each other. Waiting period between each layer changes depending on environmental conditions.

Consumption

First Layer: 1.50 kg/m² powder product
Second Layer: 1.30 kg/m² powder product
Third Layer: 1.20 kg/m² powder product

Point to Consider

- If surface temperature is below +5°C or over +25°C in MasterJoint® WP 305 application, then suitable temperatures must be waited for. Also application should not be made in very hot, rainy or windy weathers.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.
- MasterJoint® WP 305 applied in +23oC gains mechanic strength after 2 days, becomes impermeable to water after 7 days, and gains final strength after 14 days. Higher temperatures decrease the time, lower temperatures increase the time.

- Wet film thickness must not pass 2 mm in single layer. The application has to be at least two layers.
- The surfaces that will be walked on have to be coated by MasterCast® 125 grout or ceramic. MasterJoint® WP 306 must be used for pools, vibrating grounds and surfaces expected to be deflected.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After MasterJoint® WP 305 is hardened, it can only be removed from the surface mechanically.

Packaging

20 kg polyethylene reinforced kraft bag

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 unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and 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

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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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DOP NO: 2102012	
2184-CPR-0450	
MasterJoint® WP 305 (Yapfleks® 305)	
TS EN 1504-2:2004 Nem kontrolü 2.2, Artan direnç 8.2 2.2 Moisture control, 8.2 Increasing resistivity	
Beton için yüzey koruma sistemleri Surface protection systems for concrete	
Kaplama uygulaması Coating application	
Kapiler Su Emme ve Su Geçirgenliği (Capillary Absorption and Permeability to water)	w<0,1 kg./m ² .v/h
Su Buharı Geçirgenliği (Permeability of water vapour)	Sınıf I (Class I)
Çekip koparma deneyi yoluyla yapışma dayanımı (Adhesion strength by pull-off test)	Rijit Sistemler (trafik yükü olmadan) ≥ 1,0 (0,7) N/mm ² Rigid Systems (without trafficking)
Yangına karşı tepki (Reaction to fire)	A1
Tehlikeli maddeler (Dangerous substances)	Maddeler 5.3'e uygun (Comply with clause 5.3)

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