

MasterJoint® 390

Acrylic Resin Based UV Resistant Waterproofing Material

Material Description

MasterJoint® 390 is an acrylic resin based single part ready to use waterproofing material used on terraces, roofs, precasts, rain gutter and exterior surfaces.

Complies with EN 1504-2

Areas of Application

- Indoor and outdoor areas for vertical and horizontal applications
- Inclined terrace roofs
- Concrete, zinc, and precast rain gutters
- Northern exteriors of silos, warehouses and buildings

Characteristics and Benefits

- Ready to use.
- Applied by brush.
- UV resistant.
- Elastic even in low temperatures.
- Gives high adherence.
- Easy and quick to apply.
- Resistant to freeze-thaw cycle.
- Can be painted.
- Does not contain solvent.

Processing Method

(A) Preparation of Substrate

Application substrate must be dry, sound mainly smooth, clean and fine pored, free from honey combs, voids, cracks, ridges, dust, tar, pitch forming oil, old paint and other bond breaking residues. Wooden or iron wedges must be removed from the surfaces and active water leakages must be prevented with **MasterJoint® 591**. Voids and hollows must be filled with **MasterJoint® 591** or **MasterCrete® S88 C**. On vertical and horizontal corners fillet with min. 4 cm radius must be applied. Deep cracks have to be filled with **MasterJoint® NPRI 474** sealants.

(B) Mixing

MasterJoint® 390 is a ready to use product. For primer application, add 50% water into **MasterJoint® 390** and mix with a 400-600 RPM mixer for 3-5 minutes. For the first layer applications add 20% water into **MasterJoint® 390** and mixed with a 400-600 RPM mixer for 3-5 minutes. The second coat must be applied without mixing with water.

(C) Processing

Prepared primer is applied by brush or roll to the surface (200 g/m²) After the primer is dried, other layers have to be applied

Technical Properties

Material	Modified Polymer Resin Based Coating	
Color	White	LX
Consistency	Brush	
Density	~ 1,36 kg/t	
Substrate Temperature	+ 5°C + 30°C	
Service Temperature	-20°C + 80°C	
Elasticity	%150	
Period to Protect Surface	4-5 hours	

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.

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to form 1-1.50 mm wet film thickness. Cracks, junctions, corners, and sides must be reinforced by suitable waterproofing mash after the application of first coat.

Coloring

MasterJoint® 390 is produced in white color. It can be colored with appropriate pigment no more than 5% of the material. After **MasterJoint® 390** dries, it can be painted by acrylic based exterior paints.

Consumption

MasterJoint® 390	Consumption
For 1 mm wet film thickness	1,36 kg/m ²
For 1 mm dry film thickness	1,48 kg/m ²
In drain pipes and rain gutters	2 - 3 kg/m ²
In terraces	3 - 4 kg/m ²

Point to Consider

- **MasterJoint® 390** is not suitable for water tank, swimming pool and foundation waterproofing.
- Wait for the appropriate ambient and substrate temperature if it is less than 5°C or more than 25°C. Also application should not be made in very hot rainy or windy weathers.
- In exterior surface applications, the surface must be protected from sun, wind, frost or rain during the first 24 hours.
- Thickness of each layer must not exceed 1-1.50 mm.
- **MasterJoint® 390** applied in +23°C gains mechanic strength after 5 days, becomes impermeable to water after 7 days and gains final strength after 14 days. Lower temperatures increase these times.
- The surfaces that will be walked on have to reinforced with suitable mash.
- Do not apply on wet surfaces.
- Drying time between each coat must be watched for.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **MasterJoint® 390** is hardened, it can only be removed from the surface mechanically.

Packaging

5 kg plastic bucket
20 kg plastic bucket

Shelf Life

12 months after the production date under appropriate storing conditions. **MasterJoint® 390** freezes below 0°C. Opened packages have to be stored by tightly sealing the cover, 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 2 palletes 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 palletes 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.

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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® 390	
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)	$w < 0,1 \text{ kg /m}^2 \cdot \text{vh}$
Su Buhan Geçirgenliği (Permeability of water vapour)	Sınıf I (Class I)
Çekip koparma deneyi yoluyla yapışma dayanımı (Adhesion strength by pull-off test)	Çatlak kapatma veya esnek sistemler (trafik yükü olmadan) $\geq 0,8 \text{ N/mm}^2$ Crack-bridging or flexible systems (without traffic load)
Yangına karşı tepki (Reaction to fire)	C-s1,d0
Tehlikeli maddeler (Dangerous substances)	Maddeler 5.3'e uygun (Comply with clause 5.3)

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