MasterJoint™ 582 (Thoroseal® Standart)

Cement and Acrylic Based Two Parts Waterproofing Coating for Negative and Positive Applications

Material Description

MasterJoint™ 582, is a cement and acrylic based polymer two parts waterproofing coating used on concrete surfaces suitable for negative and positive applications.

Complies with the EN 1504-2

Areas of Application

- Indoor and outdoor areas for vertical and horizontal applications,
- Wetrooms like WC, bathroom, kitchen and balcony
- Waterproofing of foundations and curtain walls
- Water tanks
- Tunnels
- Swimming pools
- Elevator pits
- Reinforced concrete pipes
- To protect concrete from water, carbonation and deicer salts

Characteristics and Benefits

- Resistant to negative and positive water pressures (4 bar negative-7 bar positive).
- High durability.
- **MasterJoint™ 582** has capillary effect.
- Long working time.
- Non-shrinking and non-cracking.
- Water vapor permeable.
- Very high adhesion strength. Works together with the surfaces.
- Easy to prepare and apply.
- Resistant to freeze-thaw cycle.
- Applied by brush or spraying machine.
- Can be safely used in drinking water tanks

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. Substrate must be dampened before application. If the coating loses its water rapidly, this means that substrate is not dampened enough. For the applications in hot and windy environment, only for the first coat, mixing water can be increased 10% at the recommended mixing water ratio.

Technical Properties		
Structure of the Material **MasterJoint™ 582** Part A **MasterJoint™ 600** Part B	Mineral sealant, polmer modified admixtures and special cement Copolymer acrylic dispersion	
Color	Grey	
Adhesion Strength	≥1,00 N/mm^2 (28 days)	KR
Water Vapor Permeability (H_2O)	86 -120	
Application Ground Temperature	+5^{0}C +25^{0}C	
Service Temperature	-20^{0}C +80^{0}C	
Maturity Period	3-5 minutes	
Pot Life	45 minutes	

The above values are based on +23°C and 50% relative humidity; higher temperatures shorten the time, lower temperatures lengthen it.

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(B) Mixing

Pour liquid part B **(MasterJoint™ 600)** and recommended amount of water into a clean mixing container and slowly add powder part A **(MasterJoint™ 582)** while mixing with a 400-600 RPM mixer. Continue mixing for at least 3-5 minutes until a homogenous and uniform mixture is obtained. Wait for 3-5 minutes and mix again for approximately 30 seconds and becomes ready to use.

Mixing Ratio

MasterJoint™ 582	Part A	Part B	Mixture Water
Mixture	25 kg	2 kg	5 - 5.5 lt
Density of Mixture	1.98 kg/liter		

(C) Processing

The prepared **MasterJoint™ 582** mixture is applied in two or three layers with the help of a Thoro brush. The brush application direction on each coat should be perpendicular to each other. The waiting time between coats varies according to ambient conditions.
MasterJoint™ 582 should be used for mesh application in corners. The first coat is applied with a Thoro brush. After drying, a waterproofing mesh is laid and applied on the second and third layers.

Consumption

Coverage of First Layer: 1.30 kg/m^2 mixture
Coverage of Second Layer: 1.20 kg/m^2 mixture
Coverage of Third Layer: 1.20 kg/m^2 mixture

Point to Consider

- Wait for the appropriate ambient and substrate temperature if it is less then 5°C or more than 25°C. Also application should not be made in very hot, rainy or windy weathers.
- **MasterJoint™ 582** applied in +23°C gains mechanic strength after 2 days, becomes impermeable to water after 7 days and gains final strength after 14 days.
- In exterior surface applications, the surface must be protected from sun, wind, frost or rain during the first 24 hours.
- Working and reaction time of cement and acrylic based systems are affected by environment and ground temperature, and relative humidity in the air. Low temperatures slow down the chemical reaction, and increase working period, coating time, and work time. Also coverage decreases because viscosity increases. High temperatures accelerate the chemical reaction and times stated above are reduced depending on this. For the material to complete its curing, environment and ground temperatures must not fall down below the minimum allowed value.
- Wet film thickness must not pass 1.30 mm in single layer.
- The surfaces that will be walked on must be covered with screed or ceramic tiles. **MBT Tech** tile adhesives are recommended for tiling.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **MasterJoint™ 582** is hardened, it can only be removed from the surface mechanically.

Packaging

MasterJoint™ 582 is available in a 27 kg set.
Part A: 25 kg polyethylene reinforced kraft bag
Part B: 2 kg tin

Shelf Life

12 months after the production date under appropriate storing conditions. Part B of **(MasterJoint™ 600)** freezes below 0°C. Opened packages have to be stored by tightly sealing the bag/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

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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 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™ 582 (Thoroseal® Standart)	
TS EN 1504-2 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 /m².√h
Su Buharı Geçirgenliği (Permeability of water vapour)	Sınıf 1 (Class 1)
Çekip koparma deneyi yoluyla yapışma dayanımı (Adhesion strength by pull-off test)	Çatlak kapatma veya esnek sistemler (trafik yükü olmadan) > 0,8 N/mm² Crack-bridging or/flexible systems (without traffic load) >0,8 N/mm²
Yangına karşı tepki (Reaction to fire)	B-s1,d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.3 'e uygun (Comply with clause 5.3)