

MasterSeal® 582

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

DESCRIPTION OF PRODUCT

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

Complies with EN 1504-2

FIELDS OF APPLICATION

- Interior and exterior 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

FEATURES AND BENEFITS

- Resistant to negative and positive water pressures (4 bar negative-7 bar positive).
- High durability.
- **MasterSeal® 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 (has a test report).

Chemical Analysis Laboratory, and consistent with BS 6920 Standard Analysis Report.

APPLICATION PROCEDURE


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 **MasterSeal® 591**. Voids and hollows must be filled with **MasterSeal® 591** or **MasterEmaco® S 488**. 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

Mixing

Pour liquid part B (**MasterSeal® 600**) and recommended amount of water into a clean mixing container and slowly add powder part A (**MasterSeal® 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.

TECHNICAL DATA

Material MasterSeal® 582 Part A MasterSeal® 600 Part B	Mineral Fillers, Polymer Modified Additives and Special Cements. Copolymer Acrylic Dispersion	
Color	Grey	KR
Adhesion Strength	≥1,50 N/mm ² (28 days)	
Resistance to Pressurized Water	4 bar (negative), 7 bar (positive)	
Water Vapor Permeability (H ₂ O)	86-120	
Substrate Temperature	+5°C +25°C	
Service Temperature	-20°C +80°C	
Maturity Period	3-5 minutes	
Pot Life	45 minutes	

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

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Mixing Ratios

MasterSeal [®] 582	Part A	Part B	Mixture Water
Mixture	25 kg	2 kg	5.00-5.50 kg
Density of Mixture	~1.98 kg/liter		

APPLICATION

Prepared **MasterSeal[®] 582** 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.

COVERAGE

First Coat: 1.30 kg/m² mixture
Second Coat: 1.20 kg/m² mixture
Third Coat: 1.20 kg/m² mixture

WATCH POINTS

- 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.
- **MasterSeal[®] 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. **Master Builders Solutions** tile adhesives are recommended for tiling.

CLEANING OF TOOLS

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

PACKAGING

27 kg set
Part A: 25 kg polyethylene reinforced kraft bag
Part B: 2 kg tin

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.

SHELF LIFE

12 months after the production date under appropriate storing conditions. **MasterSeal[®] 600** is frozen under 0°C. Opened packages have to be stored by tightly sealing the bag/cover, and must be used in one week.

HEALTH AND SAFETY PRECAUTIONS

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** 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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CONTACT INFORMATION

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Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 1020 – CPR – 040 065838 DOP NO: 02.1504.2.020	
EN 1504-2:2004 MasterSeal 582 Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. Bölüm:2 Beton için Yüzey Koruma Sistemleri (Products and systems for the protection and repair of concrete structures Part 2: Surface protection systems for concrete)	
Prensipiler : 2.2 Nem Kontrolü, 8.2 Nem içeriğini sınırlayarak direnç artırma amaçlı kaplama malzemesi (Principles: 2.2 Moisture control, 8.2 Increasing resistivity)	
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf I (Class I)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m ² ·h
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rijit sistemler Trafik yükü ile birlikte:≥ 2,0 N/mm ² (Rigid systems With trafficking:≥ 2,0 N/mm ² (1,5 min)
Yangına karşı tepki (Reaction to fire)	C-s1;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.4 ' e uygun (Comply with clause 5.4)