

MasterSeal® 390 (Formerly known as Likit Membran®)

Acrylic Resin Based UV Resistant Waterproofing Material

DESCRIPTION OF PRODUCT

MasterSeal® 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

FIELDS OF APPLICATION

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

FEATURES 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.

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. Deep cracks have to be filled with **MasterSeal® NP 474** sealants.

TECHNICAL DATA

Material	Modified Polymer Resin Based Coating	
Color	White	LX
Consistency	Brush	
Density	~1,36 kg/l	
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.

Mixing and Primer Preparation

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

APPLICATION

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

COLORING

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

COVERAGE

MasterSeal® 390	Sarfiyat
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

WATCH POINTS

- **MasterSeal® 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.

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- **MasterSeal® 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 **MasterSeal® 390** is hardened, it can only be removed from the surface mechanically.

PACKAGING

5 kg plastic bucket
20 kg plastic bucket

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 2 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® 390** freezes below 0°C. Opened packages have to be stored by tightly sealing the 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.

CONTACT INFORMATION

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MasterSeal® 390 Technical Data Sheet -Revision Date: 11/2020

	
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 DOP NO: 04.1504.2.021 EN 1504-2 :2004 MasterSeal 390	
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)	
Prensipler: 2.2 Nem Kontrolü , 8.2 Nem içeriğini sınırlayarak direnç artırma amaçlı kaplama malzemesi (Principles: 2.2 Moisture control, 8.2 Increasing resistivity)	
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)	NPD
Yangına karşı tepki (Reaction to fire)	B-s1;d0
Tehlikeli maddeler (Dangerous substances)	Madde 5.4 'e uygun (Comply with clause 5.4)