



The Chemical Company

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 component ready to use waterproofing material used on terraces, roofs, precasts, rain gutter and exterior surfaces.

- Gives high adherence.
- Easy and quick to apply.
- Resistant to freeze-thaw cycle.
- Can be painted.
- Does not contain solvent.

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.

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**, **Emaco® R 356** 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 **Masterflex® 474** sealants.

Technical Data

Material	Modified Polymer Resin Based Coating	
Color	White	LX
Consistency	Brush	
Density	~1.36 kg/liter	
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.





The Chemical Company

MasterSeal® 390 (Formerly known as LIKIT MEMBRAN®)

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 Method

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 mash 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	Coverage
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 then 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.
- **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 pail
- 20 kg plastic pail

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.



The Chemical Company

MasterSeal® 390 (Formerly known as LIKIT MEMBRAN®)

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 Watch Points

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 **BASF Yapı Kimyasalları Sanayi A.Ş.** is only responsible for the quality of the product. **BASF Yapı Kimyasalları Sanayi 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 (08/2013).

 1020	
BASF Yapı Kimyasalları Sanayi A.Ş. Gebze Organize Sanayi Bölgesi İlhan Dede Cad. 1000 Sok. Gebze-Kocaeli/TÜRKİYE	
11 1020 - CPD - 040 039920	
EN 1504-2 PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES Coating material, purpose of 1.3 Protection against ingress, 2.2 Moisture control, 5.2 Increasing resistivity impregnation and protection against ingress	
Water vapour permeability	Class I
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{m}^{0,5}$
Permeability to CO2	$sD > 50 \text{ m}$
Reaction to fire	B-s1,d0
Dangerous substances	Comply with clause 5.4