

MARITRANS•SYSTEM[®]

TRANSPARENT LIQUID-APPLIED WATERPROOFING SYSTEM

Maris Polymers[®]
POLYURETHANE SYSTEMS

Balconies and terraces are constantly exposed to humidity, ultraviolet degradation, weathering, acid rain attack, mechanical wear; ongoing movement stresses due to temperature changes and frost. For these reasons, most balconies and terraces leak and require a renovation to keep them watertight and to maintain their decorative design.

The professional, long lasting, transparent waterproofing solution is the ***MARITRANS***®

The ***MARITRANS***® waterproofing coating is based on UV-stable Polyurethane resins. When applied on balconies and terraces, it creates a seamless, transparent, pedestrian traffic resistant membrane, that protects the substrate reliably and on a long-term basis, even under the most difficult conditions.



Maris Polymers®
POLYURETHANE SYSTEMS





advantages

- Simple application (one component)
- When applied, forms a seamless membrane, without joints or leak possibilities
- UV-stability
- Non-yellowing and non-chalking
- Resistant to stagnating water
- Decorative and easy to clean
- Maintains its mechanical properties over time, without getting harder or brittle
- Crack-bridging
- Maintains its mechanical properties, over a temperature span of $-30\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$
- Provides water vapor permeability
- Provides full surface adherence
- The waterproofed surface can be used for everyday domestic pedestrian traffic
- Resistant to detergents, oils and diluted acids or bases
- Easy local repair, if the membrane is mechanically damaged
- Low cost compared to full tiles removal, new waterproofing and placement of new tiles

TRANSPARENT WATERPROOFING

The **MARITRANS[®]** has been tested by the German State Institute Materialprüfanstalt MPA-Braunschweig.

Among others, it was tested according to:

- the DIN EN 1928 procedure A and was classified as a waterproofing coating.
- the EN ISO 12572 and was found to offer enough water vapor permeability, so the coated surface can breathe.
- the DIN EN ISO 527 and was found that after 2000h of accelerated ageing in the UV-chamber according to the DIN EN ISO 4892-3, the mechanical properties were not influenced and thus the coating does not get harder or brittle with time.
- the DIN EN ISO 4628-6 and was found that after 2000h of accelerated ageing in the UV-chamber according to the DIN EN ISO 4892-3, the coating did not show any signs of surface chalking.



application

The entire surface must first be activated with the **MARITRANS[®] TILE-PRIMER** adhesion promoter (step 1). By using the **MARITRANS[®] TILE-PRIMER**, a cleaning and degreasing of the surface is simultaneously achieved. The next step is to apply the **MARITRANS[®]** coating (step 2,3). Upon hardening the **MARITRANS[®]** coating creates an attractive glossy surface. If a satin-matte coating is desired, one layer of the **MARITRANS[®] FINISH** satin matte, must be applied over the main coating.



For best results, all surfaces undergoing transparent sealing must be dry and in good condition. Detailed inspection and careful preparation are necessary. Joints and seams must be clean, dry and free of ascending nitric salts deposits. It is recommended that all joints, seams and gaps undergo a pretreatment with a suitable deep penetrating primer. For detailed application instructions please consult the product technical data sheet.

The **MARITRANS** coating can also be used on other applications that require a transparent, UV-stable, waterproofing membrane:

- Atriums
- Light-Domes
- Broken or cracked glass surfaces
- Transparent Plastic surfaces (Polycarbonate)
- Glass-Bricks
- Greenhouses, etc.



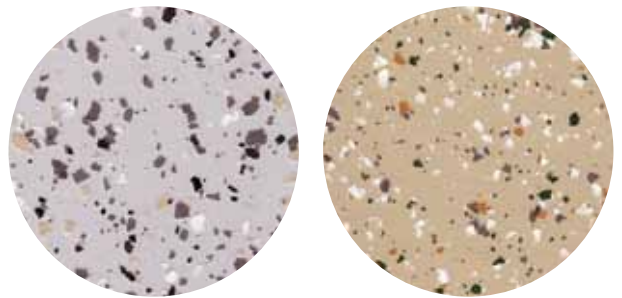
BALCONY & TERRACE WATERPROOFING

Decorative Colored Coating

Balconies or terraces can be waterproofed with a combination of the **MARITRANS/MARISEAL Systems**, to offer a wide range of decorative options and color combinations in a decorative terrazzo-like surface.

The first step of the coating construction is to apply the **MARISEAL•250** on the surface to be waterproofed.

The **MARISEAL•250** is a highly elastic polyurethane coating that can cope with every movement of a building structure and will serve as the main waterproofing membrane of the system. The next step is to apply the UV-stable, hard-elastic and wear resistant **MARISEAL•400** coating on the surface to get the desired color. Colored chips or flakes are then broadcasted onto the still wet layer of **MARISEAL•400**. Upon drying, the entire surface is sealed with the **MARITRANS** transparent coating.



Sandcarpet Coating

Balconies, Terraces and Pedestrian Walkways can be waterproofed in such a way, as to create a sandcarpet finish. The result is a durable and decorative anti-slip surface.

The first step of the coating construction is to apply the **MARISEAL•250** on the surface to be waterproofed.

The **MARISEAL•250** is a highly elastic polyurethane coating that can cope with every movement of a building structure and will serve as the main waterproofing membrane of the system.

The next step is to apply the resin mortar, to create the sandcarpet. The resin mortar is created by mixing the transparent, UV stable **MARITRANS** with colored silica sand or natural stone split. This resin mortar is being applied by trowel.

The finished surface is waterproofed, has a rough, mineral look and offers excellent abrasion resistance.

