
POLYURETHANE WATERPROOFING SYSTEMS



Maris Polymers[®]
POLYURETHANE SYSTEMS

The premium liquid waterproofing membrane system

MARISEAL SYSTEM®

The **MARISEAL SYSTEM**® is a liquid-applied waterproofing system, based on pure high-quality Polyurethane resins. When the **MARISEAL SYSTEM**® is applied, a seamless membrane is created on the roof, balcony, terrace, wet-area or deck that protects the building structure reliably and on a long term basis, even under the most difficult conditions.

advantages

- Simple application
- Dense crosslinking during curing.
- Forms a seamless membrane without joints or leak possibility
- Resistant to water
- Resistant to frost
- Resistant to high temperatures
- Crack-bridging
- UV-resistant
- Maintenance of its mechanical properties over a temperature span of -30 °C to +90 °C
- Provides water vapor permeability
- Provides full surface adhesion
- The waterproofed surface can be used for medium to heavy pedestrian traffic, depending on the chosen system
- Resistant to detergents, oils and common chemicals
- Easy and fast local repair if the membrane is damaged
- Decorative
- No need for open flames during application
- Low cost



MORTAR



CONCRETE



BITUMENFELT



PVC AND EPDM MEMBRANE



METAL



WOOD

uses

- Roofs, Balconies and Terraces
- Wet areas (under tile)
- Water tanks, Water Channels
- Roof Gardens, Flowerbeds
- Pedestrian Decks
- Vehicular Decks
- Foundations, Retaining Walls

Professional applicators in over

70

COUNTRIES

use the ***MARISEAL*** ***SYSTEM*** for demanding waterproofing



Roof waterproofing

MARISEAL•250®

MARISEAL•250® is a premium, one component permanent elastic, liquid-applied polyurethane coating that cures to a seamless, high elastic waterproofing membrane. It is used for long-lasting waterproofing.

Due to its high technology properties, this product solves waterproofing problems where other methods fail, such as stagnating water, frost, humidity, long term sun exposure, etc.



advantages

- Simple application
- When applied, forms a seamless membrane, without joints or leak possibilities
- Certified for 25 years expected life span (EOTA, DIBt)
- Resistance to water
- Crack-bridging up to 2mm, even at -10 °C
- Maintenance of its mechanical properties, over a temperature span of -30 °C to +90 °C
- Provides water vapor permeability
- Provides full surface adhesion
- Provides sun reflectivity, contributing to thermoinsulation
- Provides anti-root properties
- The waterproofed surface can be used for medium to heavy pedestrian traffic, depending on the MARISEAL SYSTEM top-coat
- Resistant to detergents, oils and common chemicals
- Easy local repair, if the membrane is mechanically damaged
- Low cost

LEVELS OF USE CATEGORIES ACCORDING ETAG 005

Working Life:	W3	25 years
Climate zone:	M and S	North and South Europe
Imposed loads:	PI to P4	High pedestrian & vehicle traffic
Dachneigung:	SI bis S4	Roof slope from <math><5^{\circ}</math> to $>30^{\circ}$
Lowest surface temperature:	TL4	-30 °C
Highest surface temperature:	TH4	+90 °C
Reaction to fire:	Class E	EN 13501, DIN 4102-1 und -7
Resistant to wind loads:	>50 kPa	Resistant to all wind loads



uses

- Roofs, Balconies, Terraces
- Pedestrian Decks, Plazas
- Vehicular Decks, Roof Car Parks
- Wet areas (bathrooms, kitchens, balconies)
- Planter boxes, Green roofs
- Protection over PUR-spray foam
- Concrete protection, Bridge-decks, etc.

certifications

The **MARISEAL•250®** was tested by the German state testing institute for construction materials MPA-Braunschweig according to the European Union Directive for liquid-applied roof waterproofing kits ETAG 005 and was found conforming.

The **MARISEAL•250®** was certified by the German state Institute for construction techniques DIBt-Berlin with the European Technical Approval (ETA) and with the CE-mark and certification.

The **MARISEAL•250®** was additionally tested and approved accordingly:

DIN 1928, which classifies it as a waterproofing coating.
DIN 4102 part 1, which classifies it as a B2 fire rating construction material.
DIN 4102 part 7, which classifies it as a surface coating resistant to flying sparks and radiating heat.

The **MARISEAL•250®** has also been tested and certified in many countries around the world according to local and national regulations and norms.

Wet Areas waterproofing (under tile)

MARISEAL•270[®]

MARISEAL•270 is an elastic, single component, alkali resistant, liquid-applied polyurethane waterproofing membrane, used for long-lasting waterproofing of wet areas.

MARISEAL•270 when cured creates a highly elastic, 100% waterproofing membrane which offers long-term protection to underlying structures, even under the most difficult conditions.



advantages

- Simple application (single component, ready to use)
- When applied forms a seamless membrane without joints or leak possibilities
- Resistant to water
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- Resistant to frost
- Alkali resistant
- Provides water vapor permeability
- Full surface adherence without any additional anchoring
- The waterproofed surface can be walked on
- Easy and fast local repair, if the membrane is mechanically damaged
- Low cost

uses

Wet Areas waterproofing (under tile) in:

-  **Bathrooms**
-  **Kitchens**
-  **Balconies, etc**

certifications

It has been tested and certified by the PSB-laboratory in Singapore for its waterproofing, mechanical, elastic, water vapor permeability properties.

Potable Water Tanks waterproofing

MARISEAL•300[®]

The **MARISEAL•300** is a liquid-applied, solvent-free, elastic, two component polyurethane membrane used for long-lasting waterproofing and protection of water tanks and reservoirs.





The **MARISEAL•300** is based on pure elastomeric hydrophobic polyurethane resins, which result when applied in a seamless, elastic membrane with excellent mechanical, chemical, thermal and natural element resistance properties.



advantages

- Certified for safe use in potable (drinking) water reservoirs
- When applied forms seamless membrane without joints or leak possibilities
- Resistant to water and water treatment chemicals
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- Remains elastic even at low (frost) temperature
- Full surface adherence
- Water vapor block
- Resistant to domestic sewage and common chemicals

uses

-  Potable Water Tanks
-  Water Channels
-  Artificial Ponds
-  Sewage Tanks

certifications

The **MARISEAL•300** is certified according the current European, German, British, Greek and Singaporean legislation for use on surfaces in direct contact with potable (drinking) water.

Foundations & Retaining Walls waterproofing

MARISEAL•600[®]

MARISEAL•600[®] is a permanent elastic, liquid applied, two component, bitumen extended polyurethane waterproofing membrane used for long-lasting protection and waterproofing of foundations and retaining walls.





When applied it creates a seamless, highly elastic, waterproofing membrane without joints or leak possibilities.



advantages

- Easy application
- When applied forms a seamless membrane without joints or leak possibilities
- Resistant to stagnating water
- Provides vapor block properties
- Highly elastic
- If the membrane gets mechanically damaged, it can be easily repaired locally within minutes
- Resistant to water and frost
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- Low cost

uses

-  Foundations
-  Retaining Walls
-  Concrete Structures
-  Wet Areas (under tile)

certifications

It has been tested and certified by the PSB-laboratory in Singapore for its waterproofing, mechanical, elastic, water vapor block and other properties.

Transparent Balcony / Terrace waterproofing (above tile)

MARITRANS[®]

MARITRANS[®] is a premium, single component, transparent liquid-applied polyurethane waterproofing membrane.

When applied on balconies and terraces, it creates a seamless, transparent, pedestrian traffic resistant membrane, that protects underlying structures on a long-term basis.

This high technology transparent coating is UV-stable, non yellowing, non-chalking, alkali and chemical resistant. Even after years of use it remains transparent and elastic.



advantages

- Simple application (single component, ready to use)
- UV-stable
- Non-yellowing, non-chalking
- When applied forms a seamless membrane without joints or leak possibilities
- Provides water vapor permeability
- Crack bridging
- Resistant to water
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- Resistant to frost
- Full surface adherence
- If the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- The waterproofed surface can be used for domestic pedestrian traffic

uses

- Transparent waterproofing of:
- ✦ Balconies and Terraces
 - ✦ Glass / Glass-Brick walls
 - ✦ Transparent Plastics (e.g. Polycarbonate)
 - ✦ Ceramic surfaces
 - ✦ Natural Stones
 - ✦ Wood, etc



certifications

MARITRANS[®] has been tested and certified by the German State Institute Materialprüfanstalt MPA-Braunschweig according mechanical, optical and UV resistance properties.

Roof Details waterproofing

MARISEAL•DETAIL[®]

MARISEAL•DETAIL is a liquid-applied, thixotropic, permanent elastic, **fiber-reinforced**, one component polyurethane coating used for long-lasting waterproofing of complex roofing details and connections.



uses

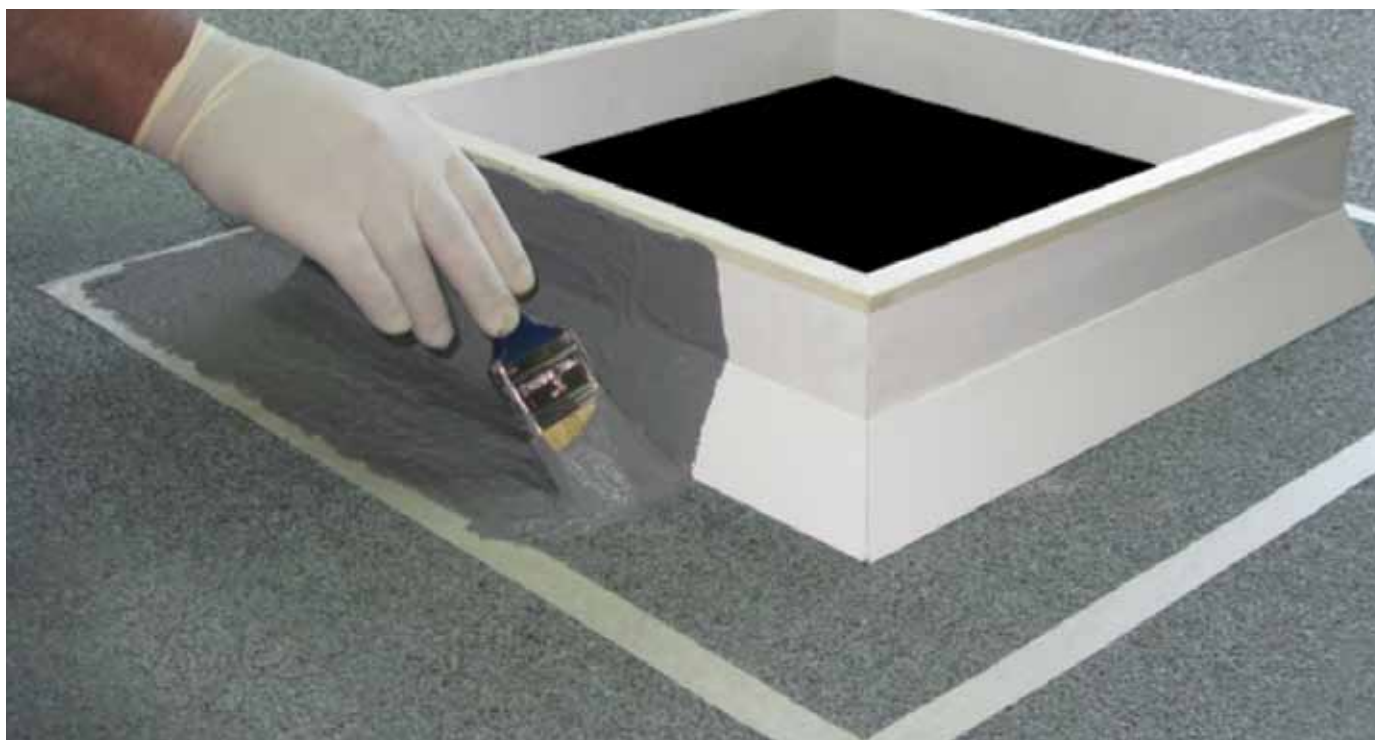
The **MARISEAL•DETAIL** is mainly used to waterproof details like:

- ✦ Pipes
- ✦ Flashings and 90° angles
- ✦ Lightdomes
- ✦ Chimneys
- ✦ Photovoltaic systems
- ✦ Wall-floor connections
- ✦ Gutters, etc.



certifications

The **MARISEAL•DETAIL** was certified by the German Institute for construction techniques DIBt-Berlin with the European Technical Approval (ETA) and with the CE-mark and certification.



Top Coat for Roofs, Balconies and Terraces

MARISEAL•400[®]

The **MARISEAL•400** is an elastic, color and UV stable, aliphatic polyurethane top-coat that is applied over the MARISEAL SYSTEM waterproofing membrane, providing a resistant finish that can withstand domestic pedestrian traffic conditions.

The use of the **MARISEAL•400** results in a resistant, color stable and decorative, glossy and easy-to-clean surface which does not show any surface chalking effect.

The **MARISEAL•400** additionally prolongs the life span of the waterproofing membrane offering long-term protection, even under the most difficult conditions.



advantages

- Simple application (roller or airless spray)
- One component
- Increases the abrasion and wear resistance of the waterproofing membrane underneath
- UV stable
- Color stable
- Gives a glossy and easy-to-clean surface
- Does not show the chalking effect of aromatic polyurethane coatings
- Resistant to water, heat and frost
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- The waterproofed surface can be walked on (domestic pedestrian traffic)

uses

Used over the MARISEAL liquid-applied waterproofing membranes on surfaces, with domestic pedestrian traffic like:

- **Roofs**
- **Balconies**
- **Terraces**
- **Verandas, etc**

certifications

It has been tested and certified by the German State Institute Materialpruefanstalt MPA-Braunschweig, as a non-yellowing, color stable and non-chalking coating.

Top Coat for Public Pedestrian Areas

MARISEAL•420[®]

The **MARISEAL•420** is a hard-elastic, color and UV stable, aliphatic polyurethane top-coat that is applied over the MARISEAL SYSTEM waterproofing membrane, providing a wear resistant finish that can withstand heavy pedestrian and light vehicle traffic conditions.

The use of the **MARISEAL•420** results in an abrasion resistant, glossy and easy-to-clean surface which is color stable, UV-stable and free of chalking.

The **MARISEAL•420** additionally prolongs the life span of the waterproofing membrane offering long-term protection, even under the most difficult conditions.



advantages

- Simple application (roller or airless spray)
- One component
- Resistant to constant, heavy abrasion and wear conditions
- UV stable
- Color stable
- Gives a glossy and easy-to-clean surface
- Does not show the chalking effect of aromatic polyurethane waterproofing coatings
- Resistant to water, heat and frost
- Maintains its mechanical properties over a temperature span of -30 °C to +90 °C
- The waterproofed surface can be walked on (public pedestrian traffic).

uses

Used over the MARISEAL liquid-applied waterproofing membranes on surfaces, with public pedestrian traffic like:

- ✦ Pedestrian Decks and Walkways
- ✦ Stadium Tribunes
- ✦ Plazas
- ✦ Exposed Car Parking areas

Water Repellent System

MARISEAL•800®

The **MARISEAL•800®** is a transparent, deep-penetrating, non-filming, non-yellowing, single component siloxane/silane water repellent and chloride screen.

The **MARISEAL•800®** allows the surface to breathe, is UV-stable, and does not change the color or the appearance of the substrate. It creates a surface that does not absorb water and thus is protected from humidity and frost damages, stains and chloride -ions on a long term basis.



advantages

- Easy application
- Deep penetration
- Do not create a surface film
- Do not change the color or the appearance of the surface
- Give the surface a constant hydrophobic effect.
- Help stop the intrusion of water and waterborne chloride ion migration reducing surface corrosion
- Allow the surface to breathe
- Provide excellent alkaline resistance

uses

MARISEAL•800® is highly effective water repellent for:

-  Natural Stones / Artificial Stones
-  Decorative Bricks
-  Limestones
-  Concrete / Colored Concrete
-  Mosaics



Transparent Floor Sealer

MARISEAL•770[®]

The **MARISEAL•770**[®] is a single component, semi-rigid, aliphatic polyurethane transparent film-forming sealer; with high mechanical and abrasion resistances. It is UV-stable, non-yellowing and provides high levels of adhesion to the surface.

The **MARISEAL•770**[®] creates a surface that does not absorb water and liquid stains. It protects from mechanical wear, dust creation, dirt, stains, oils and chemicals.



advantages

- Easy application
- Deep penetration
- UV-stability
- Create dust proof surfaces
- Enhance the color of the surface
- Create a wet-look effect
- Provide excellent protection against liquid stains
- Provide excellent protection against mechanical wear
- Offer resistance to bacterial and fungus attack

uses

The **MARISEAL•770**[®] is highly effective transparent floor sealers for:

-  Stamped Concrete
-  Colored Concrete
-  Natural Stones
-  Decorative Bricks
-  Absorbent Ceramics



Protective Pool Coating

MARIPOOL[®]

The ***MARIPOOL***[®] is a premium, one component, protective coating that offers long-lasting protection for swimming pools, ponds and water tanks.

The ***MARIPOOL***[®] when applied, creates a semi-rigid, colored, UV-resistant, protective coating that offers protection, high resilience, high chemical resistance to various pool chemicals and high mechanical strength.

The ***MARIPOOL***[®] offers effective, long-term protection, even under the most demanding applications






advantages

- Easy application (single component, ready to use)
- Fast application (quick drying)
- Resistant to pool chemicals
- Resistant to sun exposure
- Non chalking
- Resistant to stresses and friction
- Resilient to water
- Low cost

uses

The ***MARIPOOL***[®] coating system can be used in:

-  Swimming Pools
-  Water Fountains
-  Artificial Lakes and Ponds
-  Water tanks



Floor Coating

MARIPUR•SYSTEM[®]

The **MARIPUR•SYSTEM** is a technologically advanced, premium, one component polyurethane floor coating system that offers easy application, high durability, quick curing times and most importantly guaranteed long lasting results.



advantages

- Simple application (roller or airless spray)
- One component
- High abrasion resistant
- Resistant to constant, heavy abrasion and wear conditions
- Heat and frost resistant
- Does not absorb liquids or dirt
- Stops the creation of dust
- Decorative
- Give a glossy and easy-to-clean surface
- Chemical resistant
- Maintains its mechanical properties over a temperature span of -20 °C to +90 °C
- Low cost

uses

The **MARIPUR•SYSTEM** is mainly used on concrete floors, for interior and exterior surfaces.

- ✦ Car parking areas
- ✦ Warehouses
- ✦ Storage areas
- ✦ Production areas
- ✦ Show rooms
- ✦ Pedestrian decks
- ✦ Cold storage rooms (Freezers), etc.

Maris Polymers®

POLYURETHANE SYSTEMS

SUCCESSFUL PRESENCE IN OVER 70 COUNTRIES WORLDWIDE



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