

# LIQUID WATERPROOFING

UNLIMITED PROTECTION IN MODERN ARCHITECTURE





## DEVELOPMENT, RESEARCH, MANUFACTURING

**TECNOPOL** is a chemical company founded in 1996 and focused on the development, formulation and **manufacture of high technology and quality construction products for waterproofing, insulation and paving.**

TECNOPOL is currently **the European leader in** the manufacture of liquid membranes for waterproofing and has multiple certifications such as ETE, BBA, DTA and ASTM.

With its headquarters in Barcelona (Spain) and presence in the 5 continents thanks to its commercial partners, TECNOPOL distributes its products in more than 60 countries.



## **WATERPROOFING SYSTEMS that stand out for their RELIABILITY, EFFICIENCY and POLIVALENCE.**

**DESMOPOL** and **TECNOCOAT** liquid waterproofing systems are the result of our perseverance in the development of very high performance products that are at the forefront in terms of efficiency, reliability and durability. Our membranes have been developed with the aim of obtaining excellent finishes with an optimisation of costs and exceptional commissioning times.





**tecnocoat**  
INSTANT SETTING COATINGS

## THE HIGH-PERFORMANCE MEMBRANE THAT STANDS OUT FOR ITS QUALITY

Great projects are those that take companies to a higher level and that is why we cannot leave anything to chance, we must always count on the best allies.

In this sense, TECNOCOAT P-2049 plays an outstanding role, positioning itself as the leading pure polyurea in Europe and as one of the best waterproofing membranes on the market. Its chemical and mechanical properties make it an optimum product on any substrate and capable of adapting to any geometry, without any joint or overlap and 100% adhered to the substrate.





**tecnocoat**  
INSTANT SETTING COATINGS

## PROPERTIES ADDING VALUE



Perfect watertightness.  
100% waterproof



Drying in only  
5 seconds



DTA / ETA / BBA  
certification / service life  
25 years



Continuous, without  
joints and overlaps



100% adhered  
to the substrate



Adapts to any shape or  
geometry



Suitable for pedestrian  
traffic



Suitable for car traffic



Adhesion on all surfaces



Excellent chemical and  
mechanical resistance



Resistant to climatic  
changes



High resistance to  
extreme temperatures



Application  
on zero slope



Prevents corrosion, rust  
and deterioration



Approved for contact with  
drinking water

### **RAPID COMMISSIONING**

**Dry to touch:** 5 seconds | **Pedestrian traffic:** 12 hours | **Vehicular traffic:** 24 hours



## POLYUREA FOR MANUAL APPLICATION WITH EXCELLENT RESULTS

TECNOCOAT CP-2049 is the evolution of cold waterproofing products, ideal for residential, commercial and industrial construction applications. This self-levelling bi-component is applied in a single coat with a notched trowel or rubber lip, offering initial drying in only 90 minutes. Its superior mechanical strength allows for applications in vehicular traffic areas. In addition, it has been recognised with the European Technical Assessment (ETA) as a liquid roof waterproofing system.





**tecnocoat.cp**  
HAND APPLIED POLYUREA

## PROPERTIES UNUSUAL IN COLD MEMBRANES



Perfect watertightness.  
100% waterproof



Anti-roots



ETA certification  
service life 25 years



Continuous, without  
joints and overlaps



100% adhered  
to the substrate



Adapts to any shape or  
geometry



Suitable for pedestrian  
traffic



Suitable for light road  
traffic



Adhesion on all surfaces



High chemical and  
mechanical resistance



Resistant to climatic  
changes



High resistance to  
extreme temperatures



Application  
on zero slope 0



Prevents corrosion, rust  
and deterioration

### RAPID COMMISSIONING

**Dry to touch:** 1.5 hours | **Pedestrian traffic:** 12 hours | **Vehicular traffic:** 24 hours



## THE ONE-PACK MEMBRANE CERTIFIED FOR 25 YEARS

DESMOPOL membrane is a single-component polyurethane with high versatility, thanks to its elongation of more than 600% and tensile strength of up to 5 MPa. It can be applied on almost any substrate or construction. DESMOPLUS additive, it allows application in a single self-levelling layer of up to 2 mm, with a drying time of less than 2 hours, optimising execution times







## PROPERTIES OUT OF THE ORDINARY



Perfect watertightness.  
100% waterproof



ETA / BBA certification  
service life 25 years



Anti-roots



Continuous  
No joints or overlaps



Fully  
bonded



Application  
on zero slope 0



Suitable for  
pedestrian traffic



Suitable for  
light road traffic



Adapts to any shape or  
geometry



Adhesion on all types of  
surfaces



High resistance to  
extreme temperatures



Resistant to climatic  
changes

### RAPID COMMISSIONING

Initial drying time: <1.5 hours

# MAIN CERTIFICATIONS



## EUROPEAN TECHNICAL ASSESSMENT (ETA) ROOF WATERPROOFING

ETA certification (w3 25 years service life) is available. This approval is based on the European Assessment Document (EAD) which approves the suitability of the system as a "Liquid applied roof waterproofing system".

This approval includes the EN-13948 root penetration resistance certificate for use of the product on green roofs.

## BRIDGE DECKS WATERPROOFING

This approval is based on the European Assessment Document (EAD) which approves the suitability of the product as a "Liquid applied waterproofing system for bridge decks" (waterproofing under asphalt).



## CE MARKING (UNDER EN 1504-2) PROTECTION AND REPAIR OF CONCRETE STRUCTURES

EN 1504-2 approval of products and systems for the protection and repair of concrete structures under which both systems issue the Declaration of Performance.



## BBA CERTIFICATE DOCUMENT OF TECHNICAL APPROVAL UK

BBA certificate available for the UK market (w3 25 years life span) as liquid waterproofing applied on roofs; regulates aspects such as weather resistance, reaction to fire, adhesion to the substrate, resistance to traffic, resistance to root penetration including green roofs.



## CSTB CERTIFICATE TECNOCOAT has the DTA (technical document of application) AVIS TECHNIQUE, technical certification for the resin-based in situ liquid waterproofing system for trafficable, non-accessible and landscaped roofs.



## ASTM CERTIFICATIONS Tested to various ASTM standards in accordance with US regulations.



## CERTIFICATE NSF INTERNATIONAL LABORATORIES SUITABILITY FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION

Tested by NSF laboratories to determine suitability for use in contact with water intended for human consumption.



## CERTIFIED FOR FOOD CONTACT NO MIGRATION IN FOOD CONTACT

Available certification issued by Eurofins stating that migration in contact with foodstuffs is below the overall permitted limit, enabling its use for this type of application.



## ENVIRONMENTAL DECLARATION CONSTRUCTION PRODUCTS

Assessment of the environmental impact of building products throughout their life cycle. It helps to promote sustainable decisions and is key to certifications such as LEED or BREEAM.



<b>EUROPEAN TECHNICAL ASSESSMENT (ETA)</b> WALKABLE ROOFS	●	●	●
<b>EUROPEAN TECHNICAL ASSESSMENT (ETA)</b> BRIDGE DECKS	●		●
<b>BBA</b> WALKABLE ROOFS	●		●
<b>BBA</b> BRIDGE DECKS	●		
<b>DTA</b> WALKABLE ROOFS	●		
<b>TYPE-APPROVAL EN-1504-2</b> PROTECTION AND REPAIR OF CONCRETE STRUCTURES	●	●	●
<b>DAP CONS</b> ENVIRONMENTAL STATEMENT	●		●
<b>NSF</b> SUITABILITY FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION	●		●
<b>ASTM</b> AMERICAN STANDARD TEST METHOD	●	●	●



PURE POLYUREA MEMBRANE FOR WATERPROOFING AND PROTECTION

The standard and most versatile version, suitable for practically any type of construction, with high mechanical properties.



PURE POLYUREA MEMBRANE , **ELONGABLE (>600%)**

Specially designed to be applied to elements with structural movements such as bridges or metal decks.



PURE POLYUREA MEMBRANE, **WITH ANTI-STATIC PROPERTIES**

Specific for applications where anti-static properties are required.



PURE POLYUREA MEMBRANE, **LOW VISCOSITY**

Designed as a coating and protection for TECNOFOAM polyurethane foam systems. It can be applied with the same application equipment as the polyurethane foam.



PURE POLYUREA MEMBRANE, **HIGH STRENGTH**

Designed for situations where chemical resistance is required and for the protection of cargo surfaces of pick-up vehicles.



PURE POLYUREA MEMBRANE, **EXPANDABLE, WITH THERMAL INSULATING CAPABILITIES**

This polyurea has a final expansion of 5 to 7 times its initial thickness. For application on flat roofs, pitched roofs and terraces (non-trafficable), slabs and structural concrete slabs, as well as foundations and walls.



PURE **ALIPHATIC** POLYUREA MEMBRANE FOR WATERPROOFING AND PROTECTION.

No extra UV protection is required. It is a two-component, sprayable, aliphatic coating suitable for waterproofing, protection and sealing.

**THE  
VERSATILITY  
OF A WIDE  
RANGE**



### POLYUREA MEMBRANE FOR WATERPROOFING AND COATING

The "H" version of the most versatile polyurea on the market.



### COLD-APPLIED POLYUREA MEMBRANE FOR WATERPROOFING

Two-component liquid elastomer of aromatic polyurea for manual cold application. Produces a continuous, elastic membrane, completely adhered to the substrate, without joints or overlaps, 100% watertight and waterproof.



### ELONGABLE POLYUREA MEMBRANE

Specially designed to be applied on **supports that undergo structural movements, where high elasticity is required.**



### ONE-COMPONENT POLYURETHANE WATERPROOFING MEMBRANE

Single-component, aromatic, solvent-based, liquid polyurethane elastomer that cures with ambient humidity to produce a continuous, elastic membrane, completely adhered to the substrate, without joints or overlaps, 100% watertight and impermeable.



### SINGLE COMPONENT, TRANSPARENT, ALIPHATIC, POLYURETHANE WATERPROOFING MEMBRANE

Transparent, aliphatic polyurethane elastomer which, once cured, creates a continuous, elastic, seamless, transparent, completely watertight and waterproof membrane.



### POLYUREA MEMBRANE, LOW VISCOSITY

Designed as a coating and protection for TECNOFOAM polyurethane foam systems. It can be applied with the same application equipment as the polyurethane foam.



### BI-COMPONENT POLYURETHANE WATERPROOFING MEMBRANE, SOLVENT-FREE, CERTIFIED FOR CONTACT WITH DRINKING WATER

Two-component polyurethane elastomer, 100% waterproof, elastic and seamless, ideal for areas in contact with drinking water.

Our wide range of products, designed to cover every type of construction, is the result of years of experience, formulation and development. This experience has allowed us to

have become specialists and undisputed leaders in the sector, offering specific solutions that guarantee quality, efficiency and success in each project.

# THE REVOLUTION OF A TECHNOLOGY THAT ELIMINATES THE SETBACKS

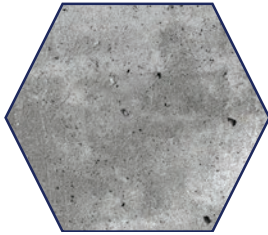
We show the key advantages of liquid waterproofing systems over traditional methods. These modern systems offer greater flexibility, adaptability to a variety of surfaces, and faster, more efficient installation, providing seamless, seamless solutions that ensure continuous, high-performance protection. Discover why liquid waterproofing has become the preferred choice for demanding projects.

	TRADITIONAL SYSTEMS	TECNOCOAT & DESMOPOL SYSTEMS
<b>Drying and curing speed</b>	<i>Extended curing; downtime impacts project time</i>	<i>Instant drying time; ready for use in minutes</i>
<b>Diversification application conditions</b>	<i>Limited effectiveness in cold or very humid climates</i>	<i>Wide temperature range and high humidity</i>
<b>Durability and performance</b>	<i>Degradation due to humidity and UV damage</i>	<i>Exceptional durability under mechanical stress and harsh conditions</i>
<b>Compatibility</b>	<i>Limited adhesion; not suitable for all surfaces or geometries.</i>	<i>High adhesion to a multitude of surfaces and geometries</i>
<b>Environmental and health impact</b>	<i>Often contains solvents and emits VOCs.</i>	<i>VOC free. 0 emissions.</i>
<b>Duration and maintenance</b>	<i>Requires re-applications and maintenance</i>	<i>Long life with minimum maintenance</i>
<b>Water and chemical resistance</b>	<i>No Chemical resistance</i>	<i>Highly impermeable and chemical resistant; ideal for secondary containment.</i>
<b>Product versatility</b>	<i>Single use as waterproofing</i>	<i>Highly versatile, not only for waterproofing</i>
<b>System security</b>	<i>Joints and overlaps, risk of human error (more risk of leakage)</i>	<i>Fully bonded with no joints or overlaps</i>

# WITHOUT LIMITATIONS

## MAXIMUM ADHESION ON ANY SUBSTRATE

Liquid membranes can be applied to a wide range of substrates, making them an extremely versatile option for protective and waterproofing coatings.



**Concrete**

Widely used for waterproofing roofs, decks, basements, foundations, tunnels and civil engineering structures.



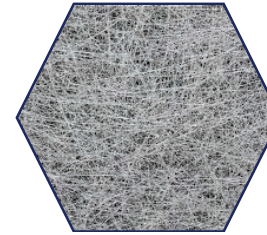
**Metal**

It is applied on steel surfaces for corrosion protection, including pipes, gutters, tanks and metal roofs.



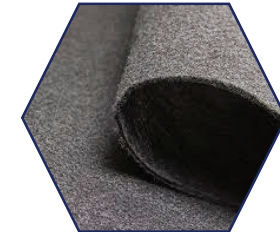
**Wood**

It is used for waterproofing wooden structures such as terraces, roofs and floors



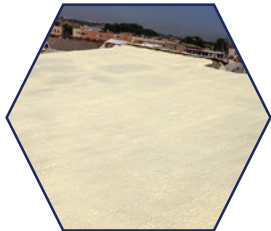
**Fibreglass**

Commonly used in the marine industry for boat hulls and other components exposed to water



**Geotextile**

To create containment barriers or secondary containment of chemicals, or on poor substrates.



**Polyurethane**

Used over PU foam in architectural and sculptural applications for durability and stability.



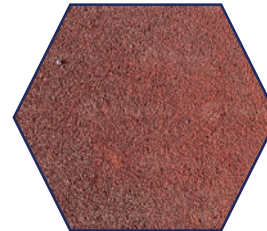
**Asphalt / Bitumen**

Applied on roads, bridges and roofs to improve durability and strength.



**Plastics**

Suitable for various plastic materials to improve water or chemical resistance.



**Rubber**

Rubber surface coating for durability and chemical resistance.



**Ceramics**

For waterproofing wet areas such as bathrooms and kitchens or balconies and terraces.



**EPS**

EPSA often coated for protection in insulation applications or decorative uses.

# THE SUPPORT NEEDED FOR EVERY PROJECT

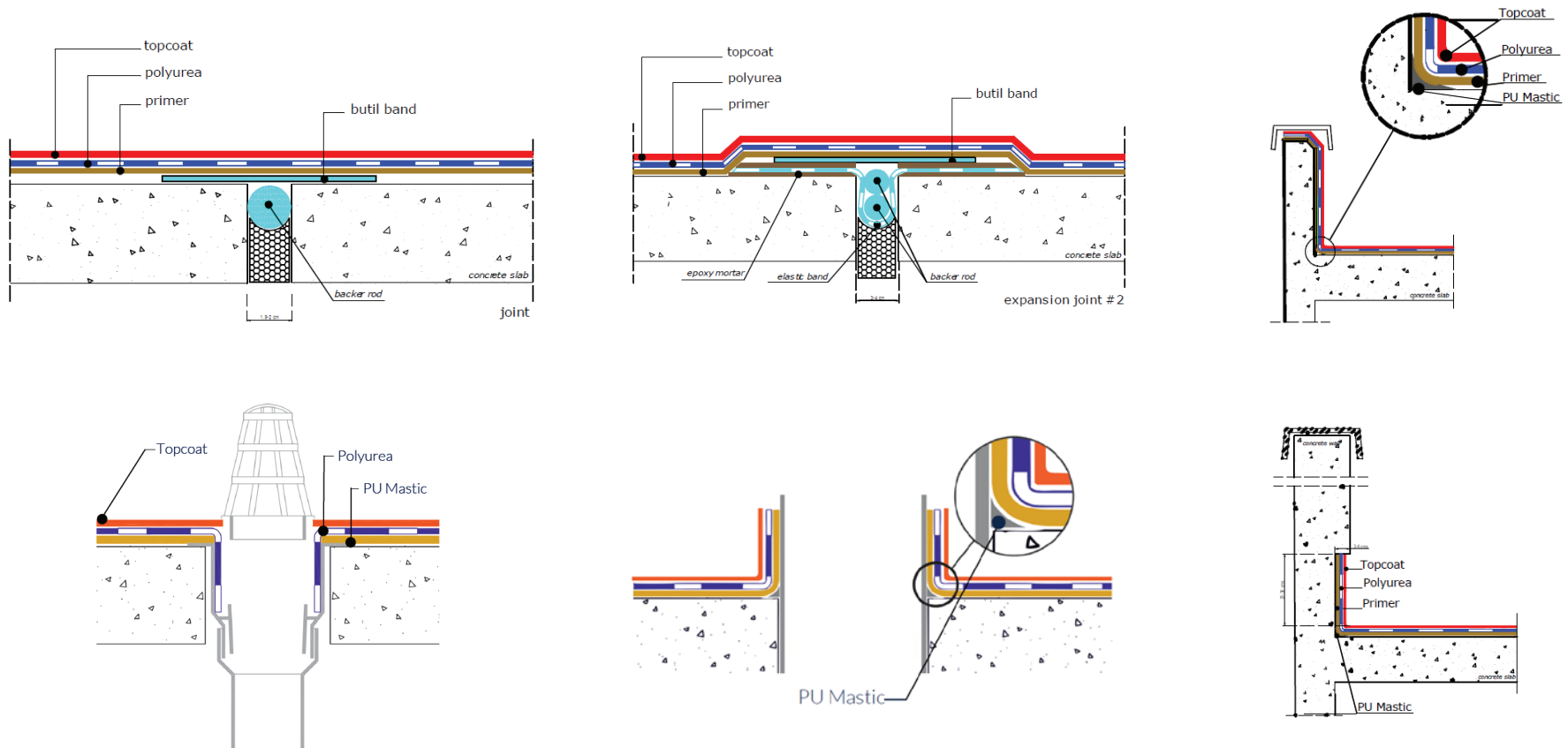
## THE VALUE OF THE EXPERIENCE OF A WHOLE TEAM

### Personalised Prescription

We offer a detailed analysis of your project to advise you on the selection of the most suitable waterproofing or insulation system. In addition, we provide you with the technical documentation necessary for its execution.

### Comprehensive Technical Assistance

We provide technical support at all stages of the project: before, during and after installation. Our team is available to answer questions about the application and consumption of the product.







## **MULTIPLE SYSTEMS AND SOLUTIONS FOR ALL TYPES OF CONSTRUCTIONS**

At TECNOPOL we formulate and develop liquid systems for the continuous waterproofing and coating of all types of construction and industrial elements, creating safety and overall protection for our end customers.

There are many technical solutions, here are some examples:

## New building roofs



1. Substrate
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. TECNOTOP top coat



1. Substrate
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. PRIMER+SILICA SAND bonding promoter
5. Ceramic finish



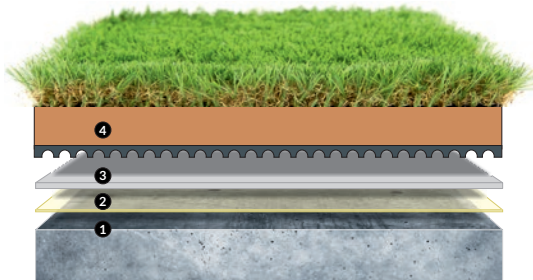
## Rehabilitation roofs



1. Ceramic tiles, EPDM, bituminous, etc.
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. TECNOTOP top coat



## Roofs and façades landscaped



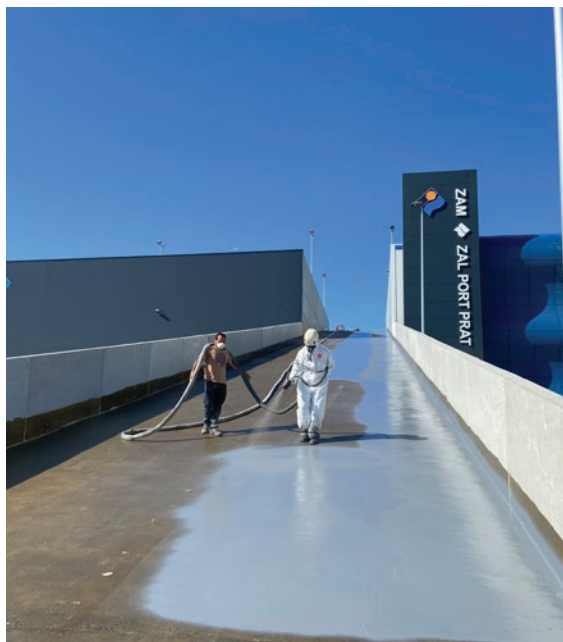
1. Ceramic tiles, EPDM, bituminous, etc.
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. TECNOTOP top coat



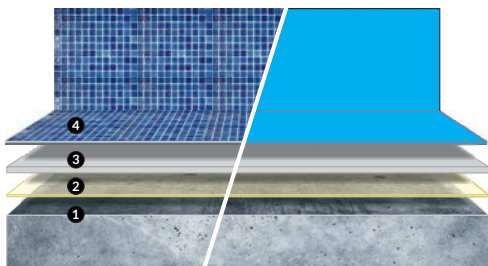
## Covers with road traffic



1. Substrate
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. TECNOTOP top coat



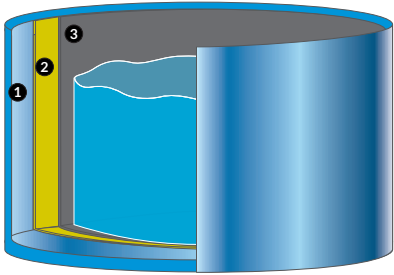
## Swimming pools, water parks, aquariums, ponds and fountains



1. Substrate
2. PRIMER
3. TECNOCOAT / DESMOPOL membrane
4. TECNOTOP 2CP top coat



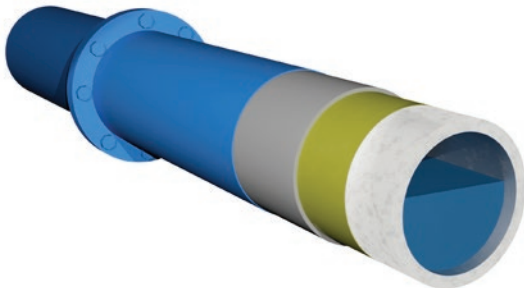
## Tanks and irrigation canals



1. Substrate
2. PRIMER
3. TECNOCOAT / DESMOPOL DW membrane



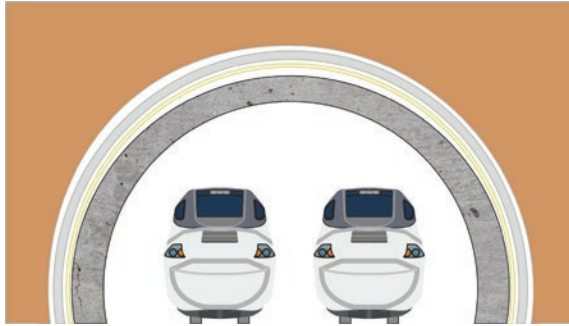
## Industrial Coatings



1. Substrate
2. PRIMER
3. TECNOCOAT membrane



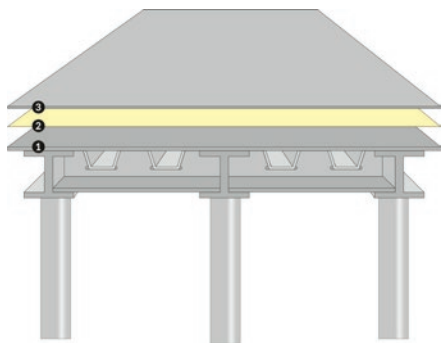
## Tunnels



1. Substrate
2. PRIMER
3. TECNOCOAT membrane



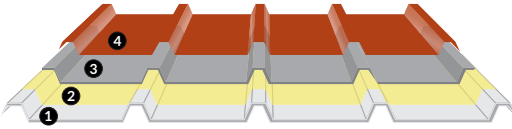
## Bridge deck and civil sector elements



1. Substrate
2. PRIMER
3. TECNOCOAT membrane
4. Asphalt, gravel, ...

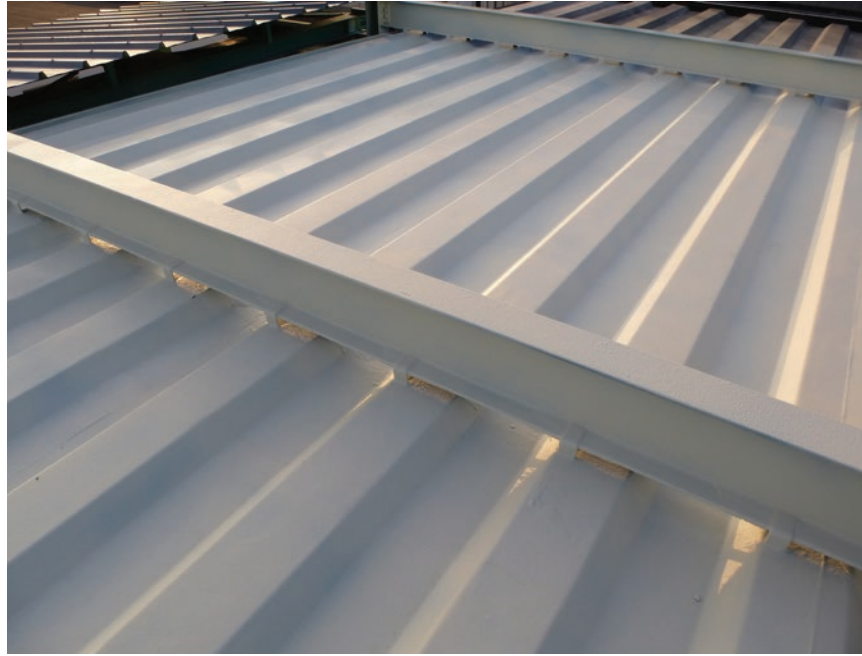


## Corrugated sheets of fibrocement, asbestos or metal

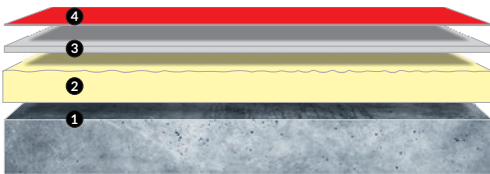


### METAL COVER

1. Substrate
2. PRIMER
3. TECNOCOAT membrane
4. TECNOTOP top coat



## Insulated roofs



### INSULATED ROOF

1. Substrate
2. TECNOFOAM Foam (SPF)
3. TECNOCOAT membrane
4. TECNOTOP top coat





Theming



Vehicle coatings and boats



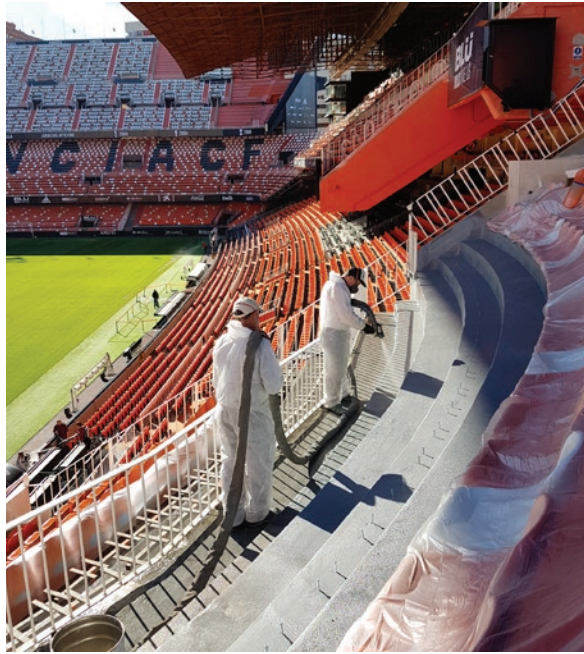
Wet areas  
indoor , toilets, locker rooms



Industrial flooring with  
waterproofing requirements



Sports facilities



Civil Works



Retaining walls and foundations



# VIDEO APPLICATIONS

## WATERPROOFING PROCESS WITH LIQUID MEMBRANES



**River Plate Stadium**  
Argentina



**Bridge deck**  
Slovenia



**Recreational swimming pool**  
Málaga



**Covered warehouses**  
Qatar



**Inverted flat roof**  
Barcelona

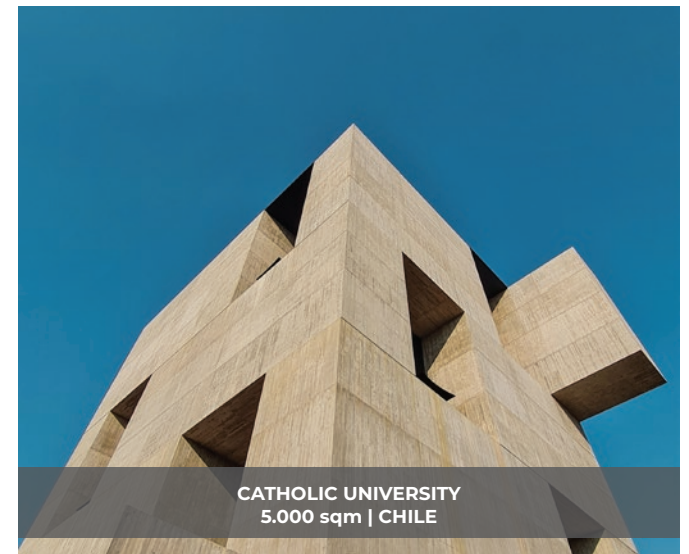
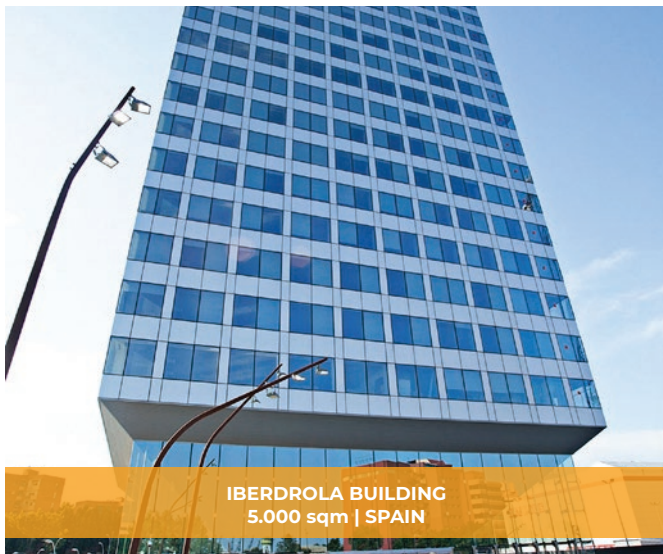
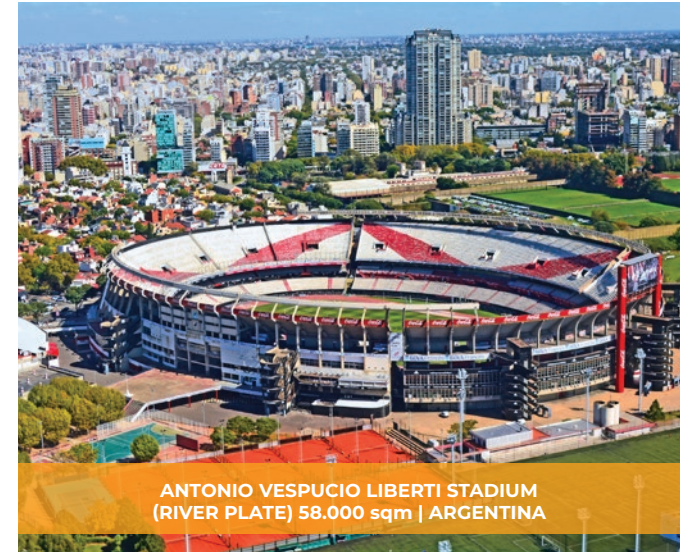


**Bus station**  
Córdoba



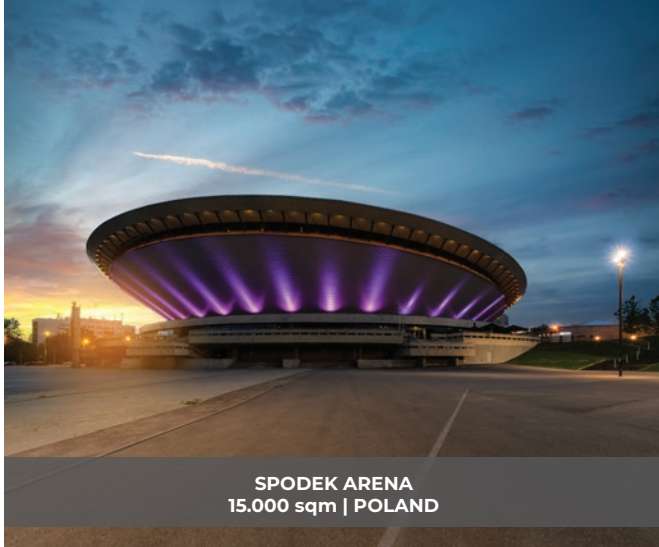
# REFERENCE PROJECTS

THAT ARE NO LONGER AFRAID OF WATER





**FORUM BUILDING**  
6.000 sqm | URUGUAY



**SPODEK ARENA**  
15.000 sqm | POLAND



**WESTERN WALL PLAZA**  
4.000 sqm | ISRAEL



**AQUASFERA REDA**  
1.200 sqm | POLAND



**HOTEL W**  
1.700 sqm | SPAIN



**LAS ARENAS SHOPPING MALL**  
13.000 sqm | SPAIN



**AL WUKAIR WAREHOUSING**  
120.000 sqm | QATAR



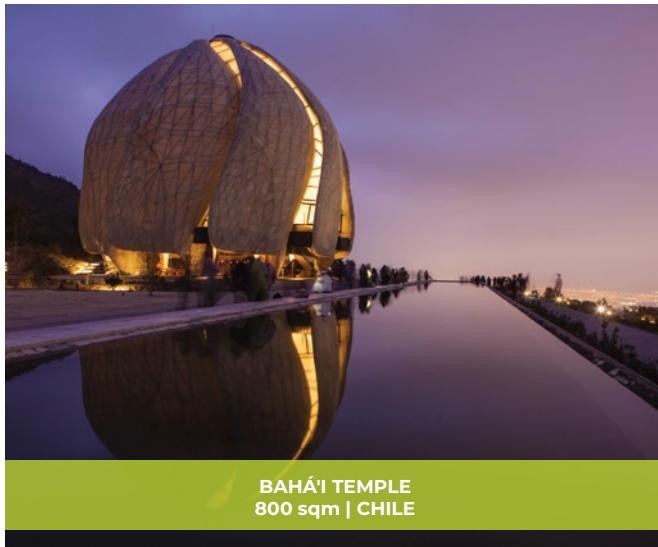
**K29 BUILDING**  
4.500 sqm | LITHUANIA



**ALL ENGLAND TENNIS AND CRIQUET CLUB**  
13.000 sqm | UK



**FCB STADIUM**  
27.000 sqm | SPAIN



**BAHÁ'Í TEMPLE**  
800 sqm | CHILE



**IBERDROLA BUILDING**  
5.000 sqm | SPAIN



SANTS TUNNEL  
35.000 sqm | SPAIN



ANTONIO VESPUCCIO LIBERTI STADIUM  
(RIVER PLATE) 58.000 sqm | ARGENTINA



FORUM BUILDING  
6.000 sqm | URUGUAY



MOROCCO MALL  
8.000 sqm | MOROCCO



UNIVERSIDAD "LA CATÓLICA"  
5.000 sqm | CHILE



AQUASFERA REDA  
1.200 sqm | POLAND



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