

TECNO MAGAZINE

by TECNOPOL

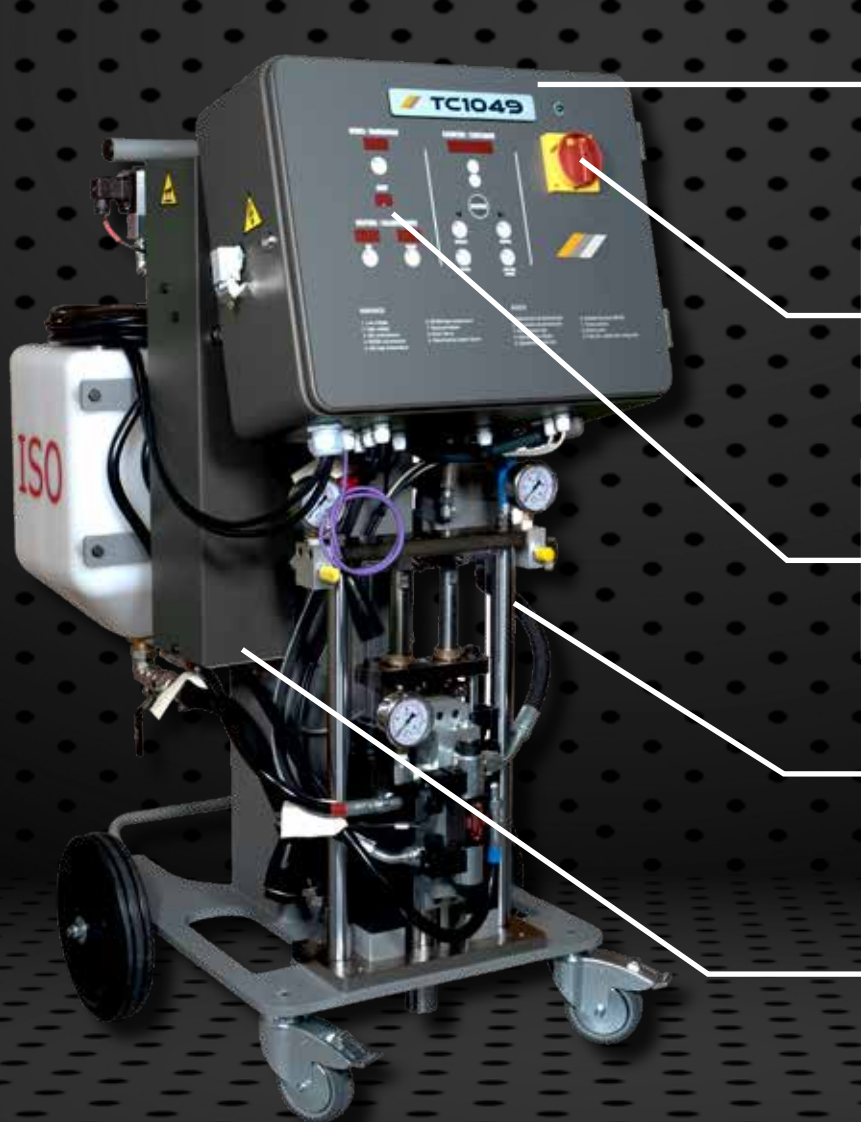
An aerial photograph of a parking lot with dark asphalt and yellow painted lines. A red car is parked in the upper left, and a yellow car is parked in the lower right. The text 'CONSTRUCTIVE SOLUTIONS CAR PARKS ON THE ROOF' is written diagonally across the center of the image.

CONSTRUCTIVE SOLUTIONS
CAR PARKS ON THE ROOF

TC1049

NEW HYDRAULIC APPLICATION UNIT

The practicality of a compact, high-performance unit that allows the application of both polyurea membranes and polyurethane foams.



POLIVALENT

Suitable for polyurea, foam and polyurethane.

POWERFUL

Heaters with a power up to 1800w.

ACCURATE

Automatic and constant temperature.

VERSATILE

Heated hoses from 20m to 48m.

HIGH PERFORMANCE

2500 psi and maximum production of 4kg/min.

SUMMARY

4_

SPONSORSHIP

Tecnopol sponsors the European Rubik Cube Championship.

6_

INTERVIEW

Interview with Moez Dahmani, Sales Director for Western Europe and North Africa.

10_

PRACTICAL

How much do you know about Tecnopol construction solutions?.

12_

CONSTRUCTION SOLUTIONS - CAR PARK ON THE ROOF

Car/caravan wash facility.
Granollers residential car park.
LIDL central parking installations.

18_

NEWS

New generation funds, the new European Bauhaus.

22_

CERTIFICATIONS

CE Marking (Declaration of performance)
Cold Spray Polyurea certification
(Tecnocoat CP-2049).

24_

SUSTAINABILITY

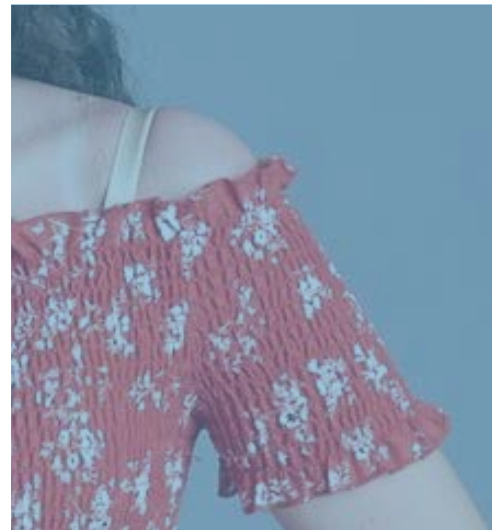
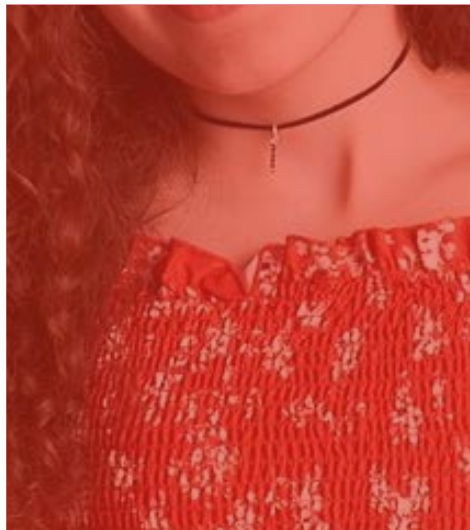
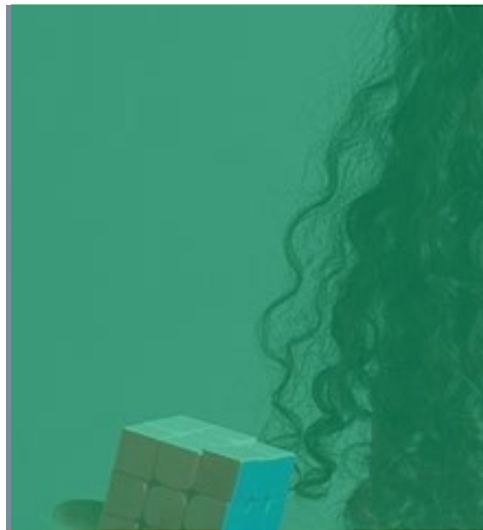
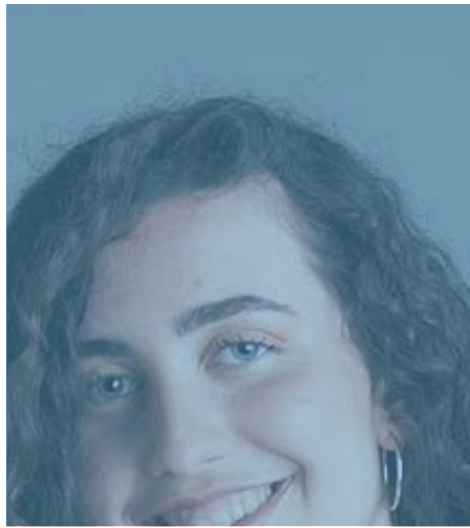
Tecnopol sustainability and decarbonisation within the construction sector.

26_

SERVICES

Tecnopol Academy and Technical services.





Three-time Rubik Cube world record holder

Berta García, 20 years old.

Tecnopol sponsors the 2 times European youth Rubik Cube champion. Specialist in solving 3 cubes blindfolded, algorithms and even solving cubes under water.

BERTA GARCÍA



TECNOPOL SPONSORS BERTA GARCÍA

The philosophy of hard work is one of the key values in any sport or discipline; Berta García is an elite competitor, who gets better every day, but she already has an outstanding list of achievements; at the age of just 18 she holds 5 European Rubik Cube records and 30 at national level. She has also twice beaten the record in Spain for memorizing the digits of the number Pi (π).

To help Berta García reach her future goals (including the world title in her speciality) Tecnopol has decided to sponsor and work together with the sportswoman from now on.

Competitiveness, psychomotricity, memory, powers of concentration, spatial vision and, above all, mental agility.

With this collaboration, Tecnopol also aims to reach a wider public, and spread the word on the products and solutions provided by the leading company in the manufacture of liquid waterproofing membranes in Europe.

It seems strange that such a simple, cheap and easily available and transportable toy would have become an essential part of my life.

Solving the puzzle, whether a Rubik Cube or running a factory capable of supplying many tons of different waterproofing products, in a whole spectrum of colours, requires effort, sacrifice, discipline and the ability to adapt to the environment. Such are the values and qualities that Tecnopol shares with Berta García.

About Berta García. She is currently studying for her Mathematics Degree at the University of Barcelona, and her ambition is to become a commercial airline pilot. Since she discovered the Rubik Cube aged seven and began competing when she was just 13 her life began to change.

She has taken part in 59 official competitions, winning 93 gold, 23 silver and 4 bronze medals. Her outstanding successes include the following: Gold in the Absolute European Championship (category Multiblindfold). 8 times gold in

I BELIEVE IN MYSELF. This empowers me, something that is essential for any objective.

the Absolute National championship (categories Blindfold, Multiblindfold, 4x4Blindfold). 5 time Absolute European Record (category Blindfold). 30 times Absolute National Record (categories Blindfold, Multiblindfold, 4x4Blindfold). Second position in the Absolute World Ranking (category Blindfold) and twice Absolute National Record in Memorization of the Number Pi.

The cube must be an optative subject in elementary and high school.

About Tecnopol: A chemical company founded in 1996 and dedicated to the development, formulation and manufacture of high quality and advanced technology construction products. Currently the European leader in the manufacture of liquid membranes for waterproofing purposes and the holder of numerous certifications including ETA, BBA, DTA and ASTM standards.

Tecnopol distributes its products in more than 60 countries. The business model is based on innovation, development and service, making it an outstanding international supplier, in a market where the demand for liquid waterproofing products is seeing constant and sustained growth. Since 2018 the Company has belonged to the Italian multinational Mapei, which has another affiliate, Mapei, Spain.



Interview with

Moez Dahmani

Director for Western Europe & North Africa.



Interview with Moez Dahmani,
Sales Director for Western
Europe & North Africa.

As a specialist in promoting Tecnopol products, Moez Dahmani, talks regularly with all manner of consultants looking for solutions for their products.

Over a few short years, polyurea has revolutionized the ways of waterproofing floorings and exteriors. What do the consultants know about the benefits of polyurea?

Over recent years, project developers have increasingly valued the use of polyurea, due to its quick drying and reaction. In scarcely a few hours, the covered surfaces are ready to use. It adapts to all surface shapes, however

uneven they may be, providing good chemical and mechanical resistance superior to other waterproofing products.

One of the main advantages of waterproofing with polyurea is that it offers excellent resistance to abrasion, wear, compression and tearing; in addition to other qualities such as its contribution to thermal resistance, electrical insulation, density and water tightness, it also offers great flexibility under low temperatures, resistance to acidic and alkali agents and adapts well under most subsoils.



“We are increasingly accrediting our products with green certifications for use in sustainable construction projects.”

Is there a common link between planning in different countries and their markets that might affect the type of products or solutions to offer?

Various factors condition the market dynamic for waterproofing, of which four stand out:

- The growing demand for affordable and efficient waterproofing systems.
- Waterproofing systems are an important part of construction projects. They provide a range of benefits that include protection against UV radiation, chemical resistance, resistance to heat, waterproofing during the rainy season, durability and resistance; all of which increase the useful life of the structures involved. In addition, these systems need to be easy to install, with limited labour, helping to reduce costs of repair and maintenance in the short and long term. Waterproofing systems based on Polyurea and Pu Elastomers are light and easy to transport and install, offer 25 years of useful life category W3 in CE.
- In addition, its environmental impact is less than other systems based on PVC, EPDM, MB and TPO.

- In comparison with other alternatives for waterproofing, the installation of Polyurea and PU systems requires less labour and is much faster, at a rate of up to 1000m² per day, making it an excellent option for the residential and commercial sectors.

Limitations: Compared with Polyurea and PU elastomers, the use of PVC, EPDM, MB and TPO membranes represent greater environmental risks during their transformation, manufacture, transport and even during installation. They also present a number of health risks; for example, the application of bitumen-based membranes can expose workers to volatile fumes. Prolonged exposure to these fumes can lead to health problems. Although the trend is moving towards the use of POLYUREA and PU, bitumen-based membranes still represent a significant share of the market among other waterproofing membranes. This means that a large percentage of workers, especially in emerging nations, are vulnerable to exposure. The transformation and manufacture of these waterproofing systems require more energy resources and damage the environment via the release of toxic fumes and VOCs into the atmosphere. However, the correct use of respirators, protective clothing and ecological alternatives can mitigate these factors.

Challenge: volatility in the prices of raw materials.

The raw materials used in the manufacture of waterproofing systems come mainly from crude oil. Crude oil is one of the principal sources of energy, making up 27.3% of global consumption of primary energy in 2015, according to the BP Statistical Energy Review. The average price of crude oil stood at 52 USD per barrel at the end of December 2016 compared with a minimum of 29.8 USD per barrel at the end of January 2016. The price of crude is on the road to recovery and stabilized at around 55-60 USD in 2017. However, due to the pandemic situation, many countries have restricted both national and international travel, which has resulted in a significant fall in demand for fuel, further affecting the price of oil. However, the industry expects that oil prices will increase due to renewed demand from China. This fluctuation in prices of crude oil will also affect the cost of raw materials for waterproofing systems.

Buildings structures are the largest consumers of waterproofing systems.

Building structures are areas that include roofs and walls as well as balconies, basements, paving, retaining walls, storage rooms, underground construction and other parts. These surfaces often experience pressures such as exposure to water, chemicals in underground water, uneven static forces, changes in temperature, biological elements and other factors. Waterproofing these elements provides an effective long-term safeguard against such exposure and ensures efficient protection for buildings structures.

What are the challenges currently facing the Waterproofing sector in Western Europe and North Africa?

In general there is a growing demand for waterproofing systems due to the search for affordable and efficient materials for the construction of new buildings as well the market for refurbishment and maintenance in the EU. The trend is similar in emerging countries although the growth has not been consistent with the inertia of the market. This decline has been largely down to the impact of COVID-19 on the waterproofing systems market. Waterproofing systems are most common in the construction industry and the pandemic has significantly affected this sector. Lockdowns in various countries and logistical restrictions, high international transport costs, interruptions in the supply chain, limited availability and increased costs of raw materials, low liquidity among companies – these are all factors that have negatively affected the sector. Companies are seeing themselves obliged to re-evaluate their strategies towards this industry during this crisis period.



Is there a particular type of construction project on which you are regularly involved, such as the refurbishment of buildings, public or sporting installations, car parks, etc.?

In general, as a result of the multitude of uses and versatility of polyurea and PU membrane for waterproofing or floor coating, Tecnopol is involved in all types of buildings applications. To cite a few examples of the fields needing our products: Flat roofs for residential and industrial buildings. Water and residual water treatment plants. Balconies, basements, foundations, containing walls. Bridges. Underground and railway systems. Ports and maritime



loading docks. Canals and concrete dikes. Industrial floors. Car parking installations.

With the pandemic, there has been an increase in working digitally and from home, what advantages and disadvantages has this involved for you?

Teleworking allows an individual to continue their professional activity from outside of the installations of the company where they work. We hope this trend will reverse after the COVID-19 crisis, when many companies have been forced to operate this way.

However, teleworking does involve less travel to visit projects and construction sites and offer on-site direct technical assistance. In addition, it can involve certain professional risks, amplified by distance and isolation, while it is important to maintain social contact, and manage time and workload.

How do you see the economic evolution of both markets and the involvement of TECNOPOL?

After this crisis is over, we hope that the market will revive with an increased demand for waterproofing systems, what is more, "I see a clear opportunity for the creation of waterproofing systems for green buildings respectful of the environment".

Waterproofing systems are now subject to stricter VOC regulations and more actively linked with environmental conservation. Many manufacturers have invested heavily in R + D and are offering new solutions with reduced environmental footprints and human risks. We are now seeing more and more products with green certificates for use on sustainable construction projects.



¿WHAT DO YOU KNOW ABOUT TECNOPOL CONSTRUCTION SOLUTIONS?

According to a definition found in the FLC construction dictionary, “a construction solution is a construction element characterized by the specific components it comprises together with other external parts separate from the construction element whose characteristics influence the level of performance provided”.

At Tecnopol we formulate and develop liquid systems for continuous waterproofing of all types of construction and industrial elements, providing comprehensive safety and protection for our end clients.

An important part of research and innovation in construction materials relates to their application. Once we are sure that a construction solution offers the appropriate characteristics and properties, it then becomes necessary to explain this to the clients who might use them on their projects.

The applications for Tecnopol construction solutions encompass a wide range of requirements, including waterproofing, protection, paving and the insulation of practically all types of building, infrastructure, roofing, public spaces, industrial installations and almost all manner of existing construction.



A GOOD STARTING POINT IS THE SYSTEMS TABLE FROM WHICH YOU CAN CHOOSE THE PROCESS BEST SUITED TO THE NEEDS OF YOUR PROJECT.

TECNOCOAT systems are based on:

- Waterproofing membranes using high quality pure polyurea that form through the application of two liquid components at high temperature and pressure. Their excellent properties make these some of the most widely used on construction projects with significant technical and practical demands.

DESMOPOL systems are based on:

- Polyurethane; they are presented in a liquid format and produce continuous, elastic and completely waterproof membranes, with properties that make them an excellent choice for all types of surface, whether new build or the refurbishment of large and small projects.

The best of all is when a client presents a new challenge we have not yet encountered. This is when the research starts on achieving the desired objective, and often “the beginning of a new construction solution”.

Check out our PRESTO catalogue: <https://www.acae.es/catalogos/tecnopol/index.htm>



CONSTRUCTIVE SOLUTIONS

CAR PARKS ON THE ROOF



Parkings on the roofs of buildings or with installations underneath them require a construction solution that offers high resistance to road traffic while protecting and waterproofing the rooms underneath.

The following are three different examples of this type of parking that are being carried out with Tecnopol systems.

- Granollers Residential **parking**
- LIDL Central **parking** installations
- La Cerdanya caravan/vehicle **car wash**

LA CERDAÑA CARAVAN AND CAR WASH

This is an existing service station looking to enlarge their premises, occupying a large part of a commercial estate, where a concrete structure has been erected on the street to house a car and caravan wash area (this will include washing and waste removal activity).

In the lower concrete part (underground storey), where the vehicles will circulate, there is car park and a storage area, requiring waterproofing of around 2500 sqm of concrete slabs.

The work took place during the rainy and summer periods. This construction is located in the Pyrenees region with cold temperatures in winter.

SURFACE PREPARATION

Priming with **PRIMER PU-1050**

Waterproofing with **TECNOCOAT P-2049**

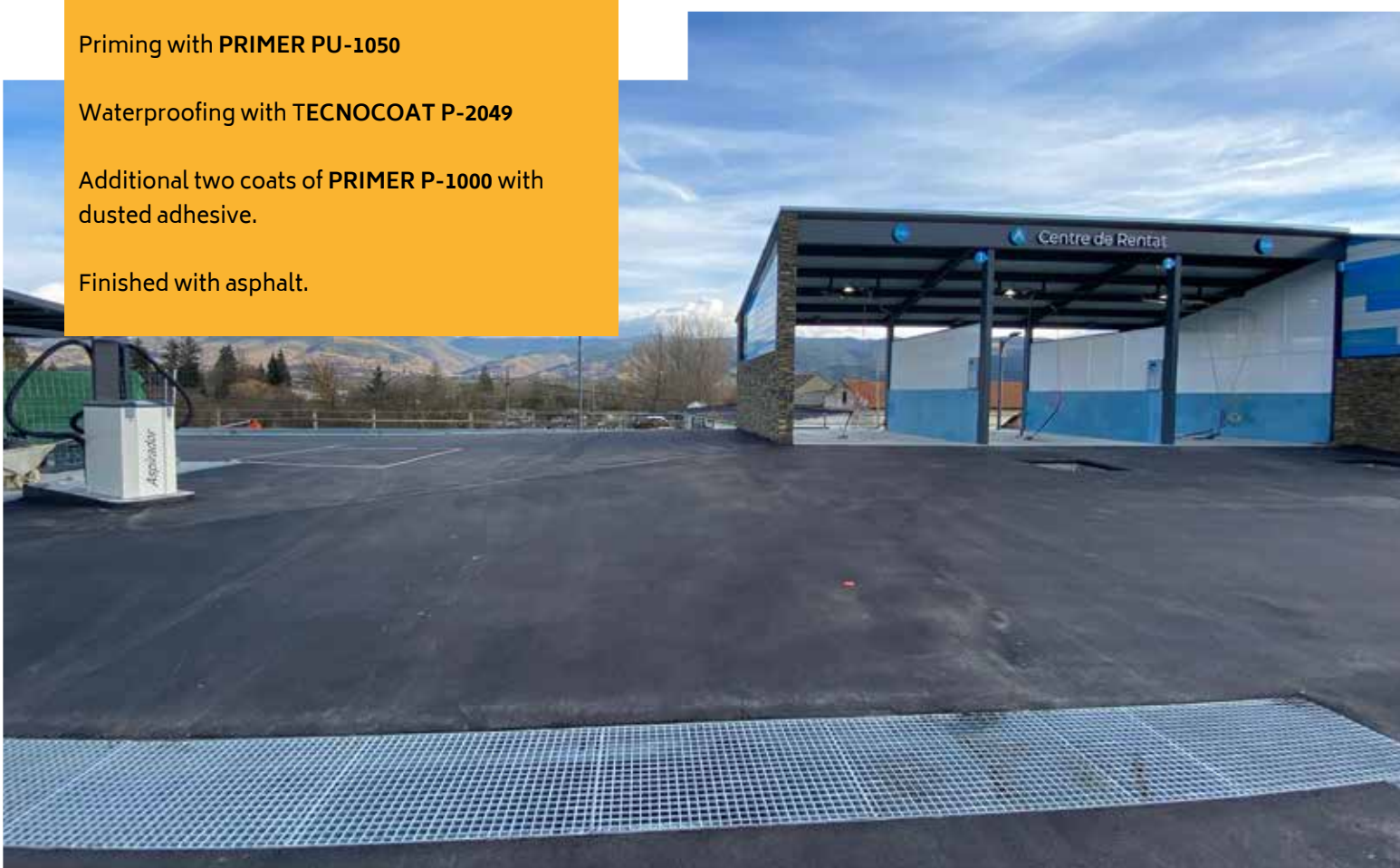
Additional two coats of **PRIMER P-1000** with dusted adhesive.

Finished with asphalt.



THE PRESCRIBED SYSTEM WAS AS FOLLOWS:

Concrete slab+ **PRIMER PU-1050** + **TECNOCOAT P-2049** + Adherence coat or bonding bridge + Hot asphalt for vehicle transit.



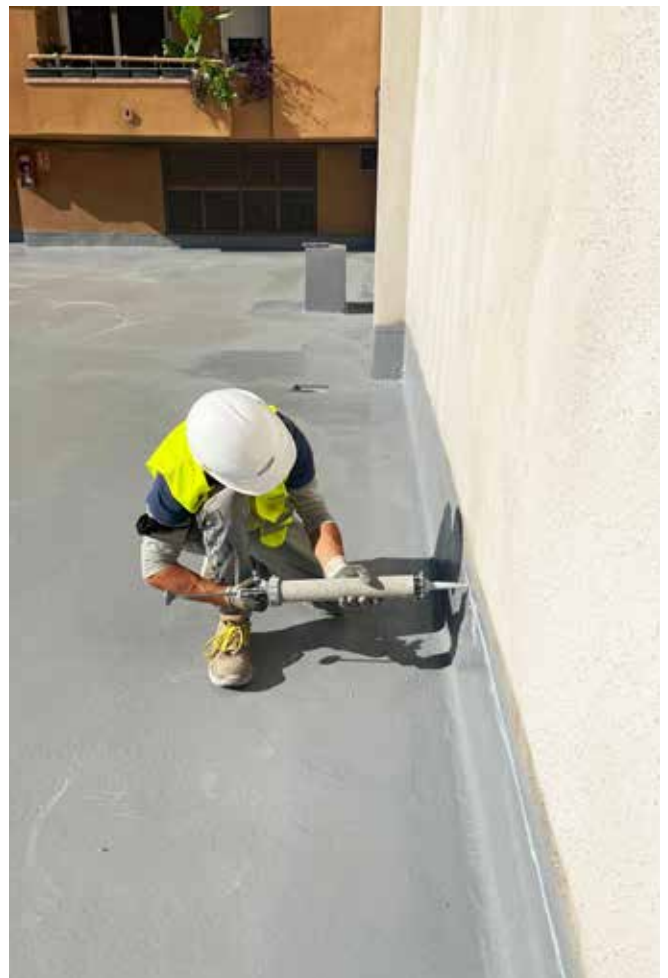
RESIDENTIAL PARKING IN GRANOLLERS

A vehicle traffic area and waterproofing treatment was completed for an outside car park underneath an urban residential zone (with underground storey parking). The area presented a number of areas where water would filter down into the lower car park.

The area had an asphalted traffic surface that had to be completely removed mechanically to expose the concrete slab base over which a new layer of sloped concrete was added before applying our new waterproofing system.

THE SYSTEM CHOSEN AND SUBSEQUENTLY APPLIED WAS AS FOLLOWS:

- Removal of existing concrete by mechanical means.
- The creation of new slopes using high resistance concrete with a semi-floating surface finish, using expansion and retraction joints in a concentric pattern around the perimeter walls.
- Initial application of the 100% solid epoxy PRIMER EP-1020 to ensure optimum adherence of the pure polyurea TECNOCOAT P-2049.
- Waterproofing via projection of the pure polyurea membrane TECNOCOAT P-2049.
- Application of two coats of a finish designed for vehicle traffic using aliphatic polyurethane resin, resistant to sunlight exposure. TECNOTOP 2C in grey, sprinkled with SILICA SAND between coats to achieve a more resistant anti-slip finish.



PROJECT REFERENCE OF VEHICLE TRANSIT CONSTRUCTION FOR THE **ZAM LIDL** CORPORATE OFFICE BUILDING



PROJECT EXECUTION

Waterproofing was completed with the TECNOCOAT P-2049 pure polyurea system applied to the entire concrete surface of the car parking area of the new installations and central headquarters of the German LIDL supermarket chain in Barcelona.

This involved waterproofing a large area of the upper flooring of the building (the office area is on the lower floors) which serves as the vehicle parking space. This area is reached via a steep ramp on the frontal part, where the anti-slip material was modified to obtain better wheel adherence. The waterproofing system holds the European Technical Evaluation standard (ETA 11/0357) according to the European guide ETAG 005 for the waterproofing of roofs, BBA 16/5340 for the waterproofing of trafficable roofs for the British market DTA 19-2665

(Applicable Technical Document) for roofing for the French markets).

The TECNOPOL technical plan applied in this case to obtain a fully watertight surface appropriate for direct vehicle traffic was as follows:

1. Existing concrete slabs on the building.
2. **PRIMER PU-1050**, resina de imprimación.
3. **TECNOCOAT P-2049**, pure polyurea for waterproofing.
4. **TECNOTOP 2C**, aliphatic polyurethane resin.

The various factors and benefits which determined the execution of this waterproofing system using a continuous liquid membrane of pure polyurea TECNOCOAT P-2049, for this exposed pedestrian/ vehicle traffic zone was as follows:

Continuous waterproofing, with no joins or overlaps, suitable for a vehicle traffic area.

High resistance to puncturing and abrasion, ensuring watertightness throughout the surface: a large area for direct vehicle contact, without the need for additional coats for transit zones.

As a continuous application without joins or overlaps, it offers optimum waterproofing on the entire surface including contact points with existing elements such as perimeter walls, drainage areas etc.

Fast execution time compared with other systems which, given the frequency of rain in the area, makes the TECNOCOAT P-2049 system ideal to avoid delays in the completion of work.

Complete continuity of waterproofing throughout the surface area of execution, taking into account all the existing construction features such as points of contact with vertical parameters etc.

Classification for application on sloping roofs, under classification S1-S4, as listed under ETA 11/0357, BBA 16/5340 and DTA 19-2665(Avis French Technical) standards, make it ideal for use.





THE VITAL IMPORTANCE OF NEXT GENERATION FUNDS AND EUROPEAN NEW BAUHAUS

The pandemic and climate change have provoked an unprecedented reaction in the European Union that will have a positive impact on the construction sector and society in general.

According to recent declarations by the President of the European Commission (EC), Ursula von der Leyen, "I hope the Next Generation EU fund will promote a wave of European renovation and make our Union a leader on the economic circuit. But this is not just an environmental or economic initiative, but should be a new cultural Project for Europe".

BUT LET US START AT THE BEGINNING, WHAT IS NEXT GENERATION EU?

Next Generation EU is a temporary economic recovery package of over 800 billion euros that will help repair the immediate economic and social damage caused by the coronavirus pandemic. Europe post COVID-19 aims to be greener, digital, more resilient and better adapted to current and future challenges.

The long-term budget for the European Community, together with the Next Generation EU, designed to boost recovery, will be the largest financial stimulus package ever seen in Europe. A total of "2.018 billion" euros that will help rebuild Europe post COVID-19. It represents a comprehensive proposal designed not just to confront the current situation, but also the uncertainties of the future.

According to von der Leyen, these changes would advance the EU down the path towards carbon neutrality by 2050 and compliance with the obligations defined under the Paris Agreement. There are also complimentary investments forecast amounting to billions of euros in technology and green infrastructure.

WHAT IS THE NEW EUROPEAN BAUHAUS?

Sustainable architecture is one of the sources of regeneration that may contribute significantly to an upturn at both a national and European level, thanks to the implementation of new technologies, the development of less contaminant materials and new construction methods with more efficient processes. Initiatives such as Next Generation EU demonstrate how

culture, sustainability and the economy can and should go hand in hand to generate common spaces for growth in all these spheres.

Going back to the words of Ursula von der Leyen, "we know that the construction sector may change from being a source of carbon to a supplier of carbon, if organic construction materials such as wood and smart technology like AI are used.



HOW WILL THE NEXT GENERATION EU FUNDS BE DISTRIBUTED?

The Recovery and Resilience Facility, is the key component of Next Generation EU, with 723.8 billion euros in loans and grants available to support the reforms and investments undertaken by EU countries. The objective is to mitigate the economic and social impact of the coronavirus pandemic and ensure that European economies and societies become more sustainable and resilient; and better prepared for the challenges and opportunities of the ecological and digital transitions. The member states are working on their recovery and resilience plans prior to the distribution of the said Facility. In addition, there is the Recovery Assistance for Cohesion and the Territories of Europe (REACT-EU): Next Generation EU also includes 50.6 billion euros for a new initiative that expands the crisis response and repair measures applied via the Coronavirus Response Investment Initiative and the Coronavirus Plus Response Initiative. With all these contributing towards an ecological, digital and resilient economic recovery.



We need to think of the New European Bauhaus within this context, as a plan that includes various facets. A cultural and educational side to reduce the European Union carbon footprint over the coming years; a coronavirus recovery side with 750 billion euros from the European Union (of which 30% will be raised via green credits), and lastly a strategic side to create a European Green Agreement with a tool to reduce greenhouse gases by 55% by 2030".

"For all these reasons we hope to create a New European Bauhaus, a co-creation space where architects, artists, students, engineers and designers can work together to achieve this goal."

HOW WILL THIS AFFECT TECNOPOL AND ITS CLIENTS?

One only has to look at the long list of objectives, projects and infrastructures that governments are putting forward prior to the imminent distribution of funds, following the guidelines of the Recovery and Resilience Facility and adapting them to local needs, to realize that such a significant economic initiative will have a number of positive results.

From the growth in production figures for the various construction and technology subsectors, to the achievement of objectives related to climate change, technological evolution, the modernization of the sector, the introduction of circular economy strategies, decarbonisation, the promotion of sustainable architecture and construction solutions and eco-efficient materials. In short, the search for a new generation of professionals committed to the essential goal of working in a sustainable manner with an innovative, inclusive and global vision, to overcome future challenges.

Innovative companies such as TECNOPOL are a valuable ally for planning and collaboration in all types of new initiatives in the future. We should now view the openings provided to all players in the sector as more than mere business opportunities, but a chance to give added meaning to our current professional activity by looking towards the solutions for tomorrow.





European Regulation on
Construction Products. (EU)
No. 305/2011



CE MARKING

(DECLARATION OF PERFORMANCE)

The advantage of the EC market is that all countries are able to permit the sale of construction products that carry the EC marking. In other words, public administrations cannot demand other standards and certifications or additional testing. As a result, manufacturers and distributors can market [1] their products in any country within the European Community with the same documentation.

Together with the declaration of performance, the EC marking helps clients and users to verify the performance of a product and compare with others with the same technical characteristics.

Once a manufacturer attaches an EC marking, they are guaranteeing that the performance of the product on sale will be exactly as defined under the correct European technical specifications.

The EC marking contains essential product information and includes references to other documents with additional important content. This pamphlet explains how these documents are worded, including examples.

The EC marking is compulsory for the majority of construction products for sale on the single European market. Those products where it is not obligatory may still carry an EC marking if they comply with certain standards.

To determine whether the EC marking is compulsory for a specific product, the first step is to consult the latest update of the full list of harmonised references, titles and current regulations published in the European Union Official Diary and check whether the product is covered under the above.

If the product for marketing is not listed under any harmonised regulation, EC marking can be obtained voluntarily. In this event, it is necessary to first check whether it is covered by any European Evaluation Document 1 (DEE).

In our case, as part of the TECNOPOL manufacturing quality policy, we obtain an EC marking under the harmonised regulation EN-1504-2 for all our waterproofing membranes. This involves a system of evaluation and verification of the constancy of performance (EVCP) to

level 2+, which means that essential performance testing has been conducted, followed by additional sample testing with an annual inspection by an external control body of the production plant and the manufacturing processes.

This process is demonstrated by two specific documents issued by the manufacturer:

- The Declaration of Performance (or EC Marking Document), a standard document that defines the product performance, the purposes for which it has been evaluated and other manufacturer information.

- The EC marking label that should be visible on all packaging.

All of this is officially regulated under EU Regulation No. 305/2011 of the European Parliament and the Council dated 9th March 2011.

COLD SPRAY POLYUREA TECNOCOAT CP-2049 OBTAINS ETA/ 20/0253 CERTIFICATION

TECNOCOAT CP-2049 ETA 20/ 0253 - issued by the Technical Assessment Body issuing the European Technical Assessment: Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc).



Product quality, valid certifications and commitment to transparency are as important as safety and sustainability in all building materials manufacturing processes.

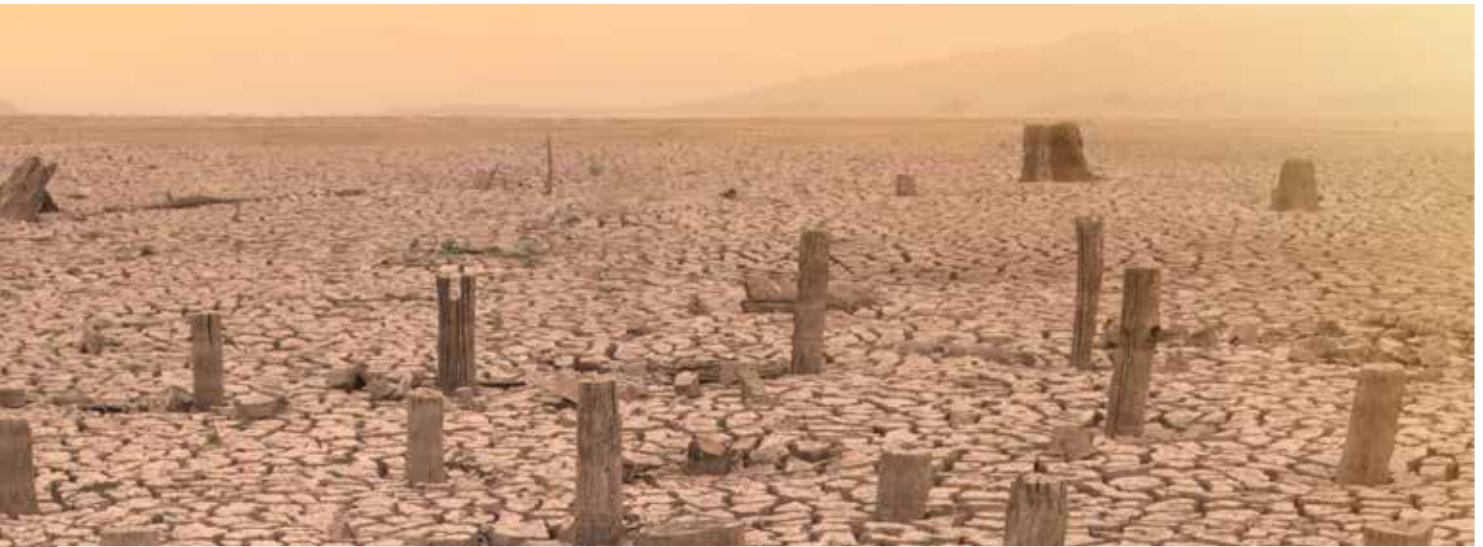
In an increasingly competitive and demanding market, manufacturers need to provide certainty to the industry value chain that their products scrupulously meet the standards, specifications and expectations expected of them.

A clear example that Tecnopol's product and management system certifications provide the absolute certainty sought by all designers, distributors and applicators is the recent award of the certificate - **TECNOCOAT ETA 20/0253** - issued by the Technical Assessment Body issuing the European Technical Assessment: Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc), on the liquid applied roof waterproofing system based on polyurea, which includes a technical description of the product, a specification of the intended use according to the applicable European Assessment Document (EAD), the performance of the products and references to the methods used in its evaluation, the assessment and verification of the constancy of performance (AVCP) of the applied system, with reference to its legal basis, the technical details necessary for the implementation of the EVCP system, as provided for in its applicable EAD.

As well as an annex with the characteristics of the "**TECNOCOAT CP-2049 SYSTEM**" and the Performance Levels according to the intended use.

TECNOPOL AND THE DECARBONISATION OF THE CONSTRUCTION SECTOR





All the players in the sector need to contribute in their own small way to the decarbonisation of the industry, changing their processes and adapting to new regulations. The new concerns for the environment are a strong incentive to continue research, reassess our manufacturing and building processes, and improve in every way possible

TECNOPOL has been working for years on a number of areas. The company manages our waste internally, separating recyclable products and using minimal water during our manufacturing processes and employs a closed circuit to reuse that necessary.

However, where we have truly demonstrated our commitment to making construction more globally sustainable is with our Tecnofoam and Tecnocoat products:

CO2 emissions from the maintenance of buildings reached their highest ever level in 2019, a message to the sector to comply with its enormous potential for slowing down climate change and contribute significantly to the objectives of the Paris Agreement. This was highlighted in the recent report published in February 2021 by the Global Alliance for Buildings and Construction (GlobalABC), led by the UN Committee on Environment and Development

Nevertheless, the plans for recovery from the pandemic provide opportunities to advance with the comprehensive renovation of buildings and the standards of energy efficiency for new construction, and rapidly reduce emissions.

The next steps on climatic commitment in accordance with the Paris Agreement, known as the Nationally Determined Contributions (NDC), also offer an opportunity to

improve the existing measures and include new commitments in the building and construction sector

Tecnofoam (thermal insulation). Use of polyurethane foam for thermal insulation with no greenhouse gases produced, using water as an expansive agent, without negative effects on the environment. This makes them completely stable and inert once applied, without any emission of particles during their useful life. Furthermore, once removed the material is recyclable without further treatment.

Tecnocoat: Pure polyurea membrane, free from solvents, zero VOCs. (With zero emissions of dangerous substances into the atmosphere). The system holds the Green Label certificate in Singapore and is in process of certification in other locations.

In addition, waterproofing roofs with TecnoPol construction solutions in one of the best ways possible to ensure they are eco-efficient.

Only through decisive steps by the sector, will we achieve a reversal of climate change and reach the objectives to which the UN, the European Economic Community and numerous national and international bodies are committed.

From our own and Construction sector sources "A United Nations report indicates the urgency for decarbonising the construction sector".

TECNOPOL ACADEMY AND TECHNICAL SERVICES

A REALITY STARTING IN FEBRUARY

In a world ever more global, connected and digital, it is fundamental that we share our technological understanding of all the issues that may improve our projects from the planning phase through to execution, seeking excellence and not deviating from our principles and objectives. No less important of course, is the goal of making every project more sustainable than the last

Tecnopol makes its technical services freely accessible to all manner of architects, engineers and clients, to work together and explain the multiple possibilities the brand's products and construction solutions can offer.

As we announced a few months ago, Tecnopol aims to take a step forward with active involvement in the training of industry professionals and clients, sharing with them the features of the products, systems and machinery we use for various applications

The Tecnopol Academy will shortly become a reality and our new corporate building will host both on-site and distance learning courses for all those interested in advancing their professional knowledge of state of the art waterproofing for all types of roofs, buildings, infrastructure or existing spaces, whether internal or external, open air and even underground.

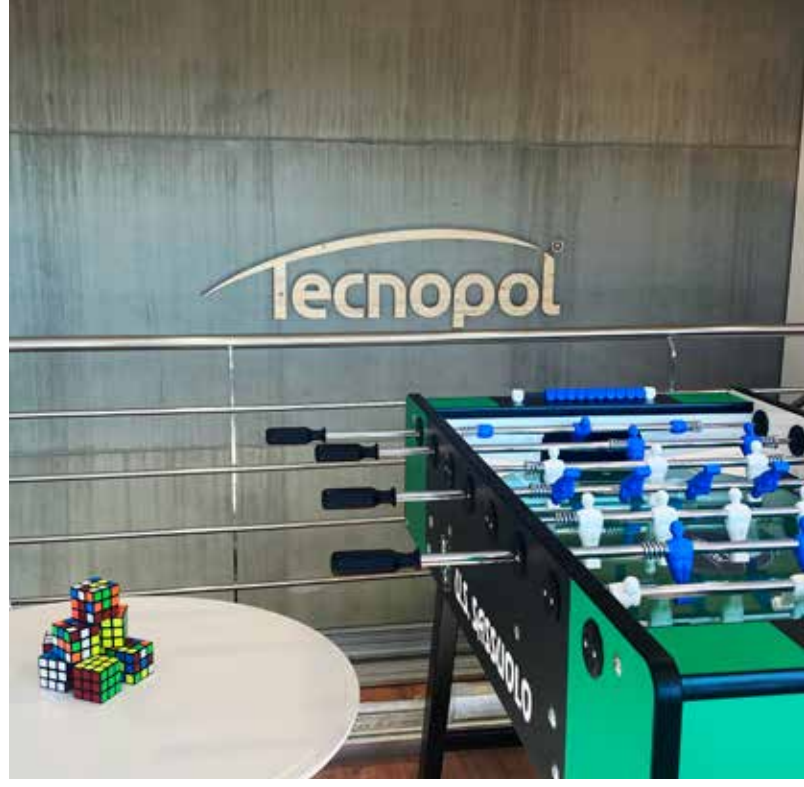
A NEW WORLD WATERPROOFING TO SHARE, UNDERSTAND AND APPLY

To achieve this goal we need to follow the lead of the professionals who have been developing products and solutions for more than fifteen years, with constant research and innovation to turn materials such as polyurea and polyurethane into essential elements for all types of project. Interested in taking part? If you would like to receive details of upcoming Tecnopol Academy activities and training courses please send us an email using our contact form and we will get in touch very soon.

From this collaboration, a multitude of study cases have emerged related to benchmark projects that, with their complexity or specific demands, have allowed us to grow as professionals and served to improve our existing products.



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