

## News TECHNOLOGY



**IGROTAC®**  
**ISOTANK** "WATERTIGHT"

**WATERPROOFING**  
**Of REINFORCED CONCRETE**  
**UNDERGROUND CONSTRUCTIONS**

**Tecnochem assists in :**  
**Engineering – Project Assistance – High**  
**Technology – Jobsite Assistance**

**WATERTIGHT**  
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**IGROTAC®**  
**ISOTANK**  
**VASCA STAGNA**

**WATERTIGHT**  
**CONCRETE**  
**STRUCTURES**

**Tecnochem guarantees :**

- Reduction in time and cost
- Maximal Saving!
- Guaranteed durability!

**Tecnochem programs :**

- No delay or interruption of the works for the contractor.
- Reset in the Gantt Diagram for the time required for the waterproofing!

**WATERTIGHT**



IGROTAC®  
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VASCA STAGNA

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STRUCTURES**

IGROTAC®  
**ISOTANK** *engineering*

The global Project ISOTANK can be coordinated by our *Office for Assistance and Project Promotion* in cooperation with the Project Managers and Construction Companies.

IGROTAC®  
**ISOTANK** *Quality waterproofing Durability*

- Design of the composition of the concrete according to the specified project requirements and by using the Additives and Technology of Tecnochem Italiana S.p.A.
- Pre-qualification in the Ready-mix plant
- **Technical Assistance** and Quality Control on the Jobsite

IGROTAC®  
**ISOTANK** *Injectable Joints*

- Crack inducing elements
- Channels for day-joints
- **Sleeves for passing tubes** subsequently injectable with special poly-acrylate formula, hydro-expansive, anti-corrosion.

IGROTAC®  
**ISOTANK** *Flex Tape*

For joints subjected to severe movements and groundwater pressure.  
Per the closing and sealing of joints

IGROTAC®  
**ISOTANK** *Injection technology*

**TECNO-INJECT PU :**

Highly hydro-expansive polyurethane resin

**TECNO-INJECT ACRYL :**

Hydro-expansive acrylic resin, anti-corrosion, resistant, durable

## **Waterproof and Durable Underground Structures and Tunnels**

*Advanced Technology and Engineering in compliance with  
TECHNICAL STANDARDS FOR CONSTRUCTION - M.D.: 14 January 2008*

- Engineering ad assistance in project specifications
- Studied additivation for intrinsic waterproof concrete and complying to EN 934-2
- Pre-qualification of durable and intrinsic waterproof concretes complying EN 206-1/ EN 12390-8
- Rules for compactness and compaction on the jobsite
- Special elements IGROTAC® ISOTANK with double functionality, injectable and hydro-expansive.
- Innovative technology of anti-corrosion injection TECNO-INJECT ACRYL-FLEX / MuCis®
- Concrete with reduced or zero shrinkage SHRINKO-tec®
- Fire resistant concrete STABIL-tec® FIRE
- Ductile structures for seismic areas HFE-tec® / REFOR-tec®
- Structures impermeable to Radon ANTIRAD 2004
- Formulations for reactive crystallisation: CRYSteco® Tensios (impregnation) – CRYSteco® PWD (mortar) – CRYSteco® ADMIX (additive)
- Assistance from Project to Jobsite
- Systematically maintenance of Planned Design over time.
- Design and execution of Repair Plans.

**LEED®**

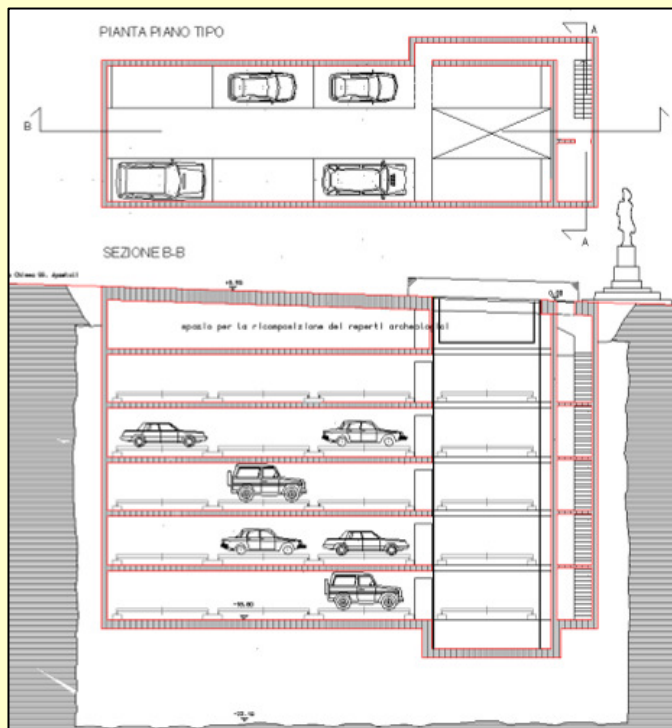
**Leadership Energy Environmental Design**

**RAINBOW MAGICLAND – “Terramagica”**  
**Integrated Touristic Amusement Parc – Valmontone (Roma)**  
*Global Project ISOTANK for the waterproofing of the Underground Structure*  
**22.000 m<sup>2</sup> in the Design and Waterproofing of the Artificial Lakes .**



## Underground Parking Piazza Ss. Apostoli – VERONA

*Realisation of a 5 level underground parking.*



## Underground Parking Via Belinzaghi - Milano



## Ex Cinema Marzani – Lodi "TOP DOWN" Technology



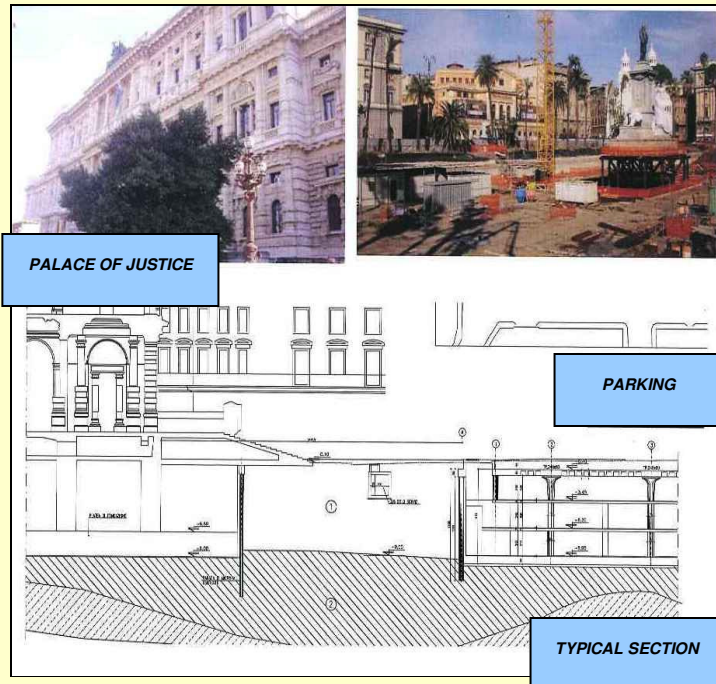
## Tanks of ENI - SANNAZZARO

5 tanks for the collection and treatment of waste water  
in a purification station.



## Underground Parking Piazza Cavour - Roma

Waterproofing of the Underground Parking in Rome Piazza Cavour with Igrotac® ISOTANK realised in Top Down - 3 levels under groundwater



## Underground Parking Piazza Gentile da Fabriano - Rome

The use of **injectable crack inducing elements ISOTANK** in the deck as lost formwork, and the installation of **special sleeves** around the columns, allowing the **simplification** of the work and **reduction** in working time.



# Cascina Merlata

## Artificial Tunnel for *WORLD EXPO 2015*

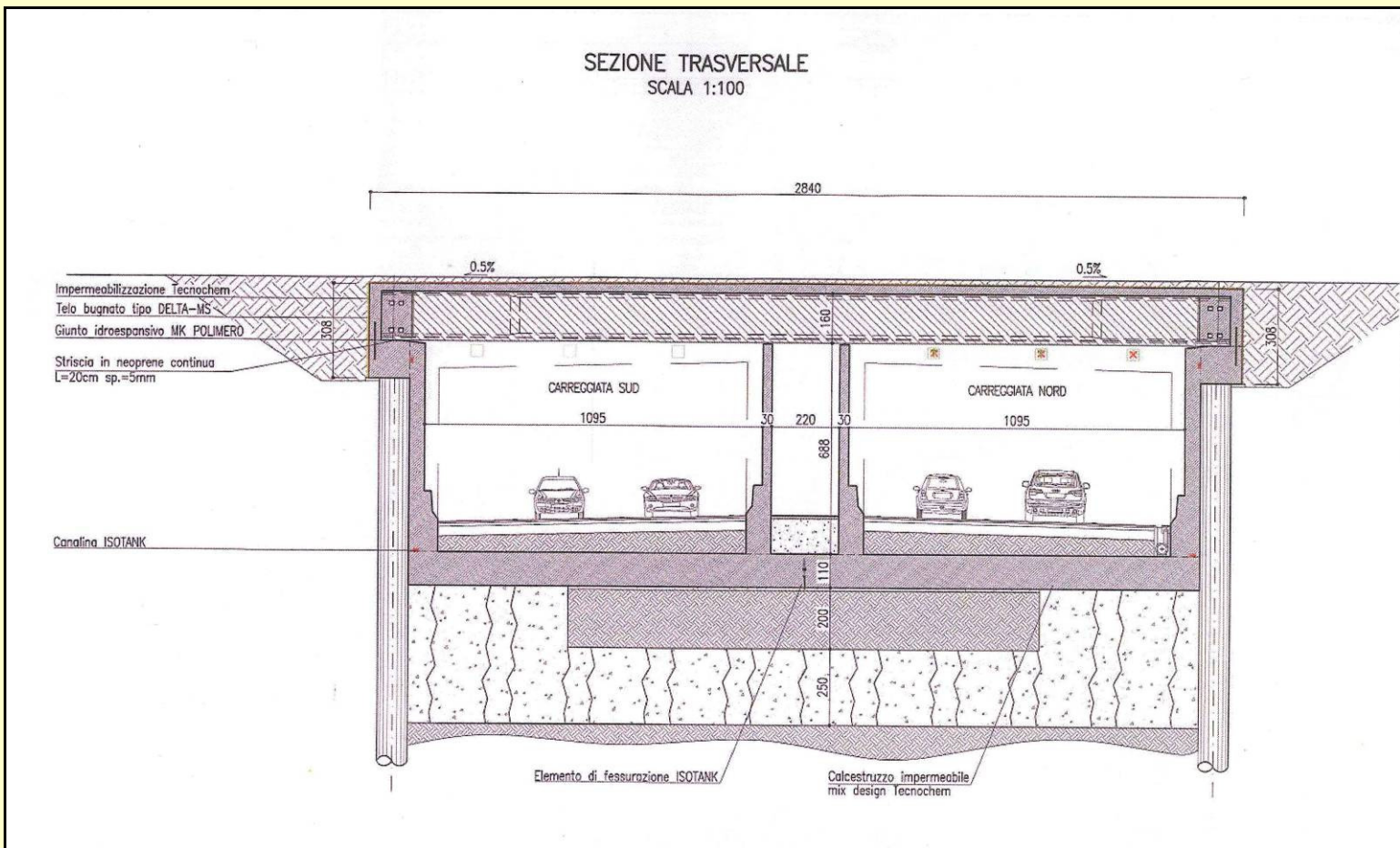
**WATERTIGHT**  
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**IGROTAC®**  
**ISOTANK**  
Vasca Stagna

**WATERTIGHT**  
CONCRETE  
STRUCTURES

SISTEMA  
**REBgeo**

**FLEX tape**



### Waterproofing of the floor slab using the System REBgeo



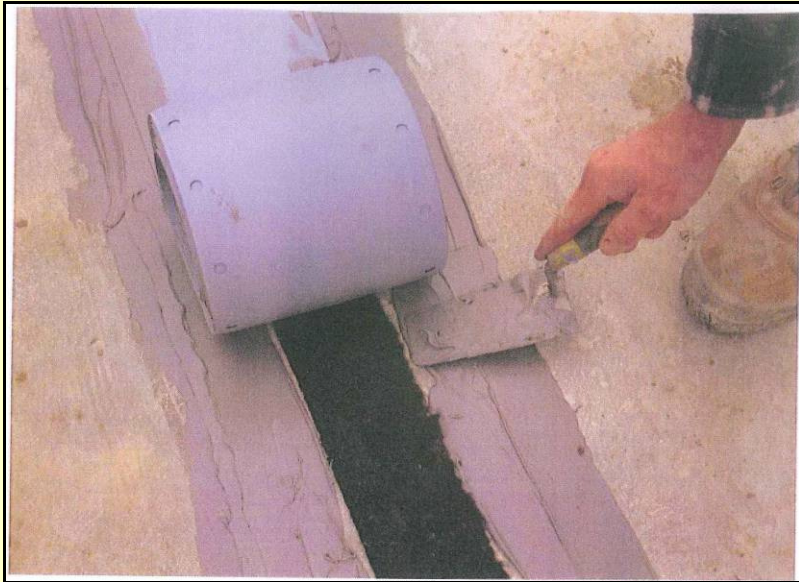






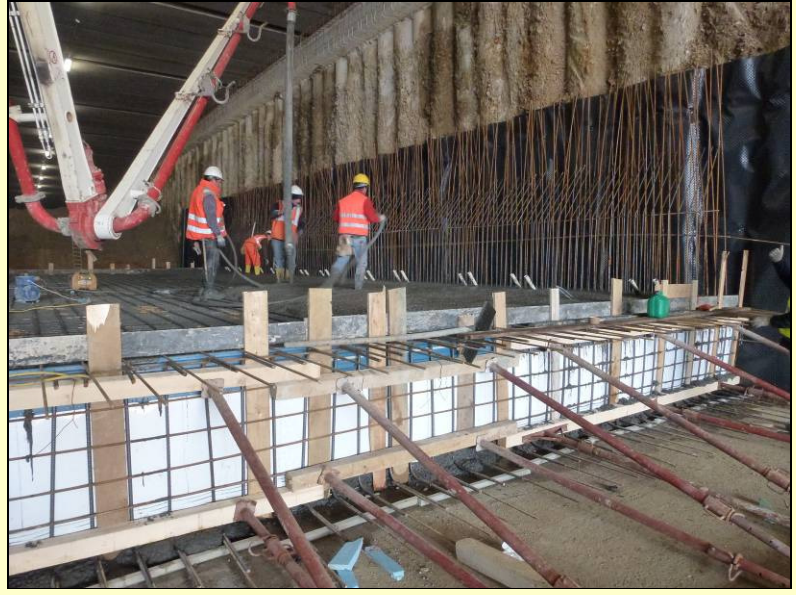
Applicazione Elasplast in verticale sulla spalla laterale prima del rinterro

## FLEX TAPE Dilatation Joints

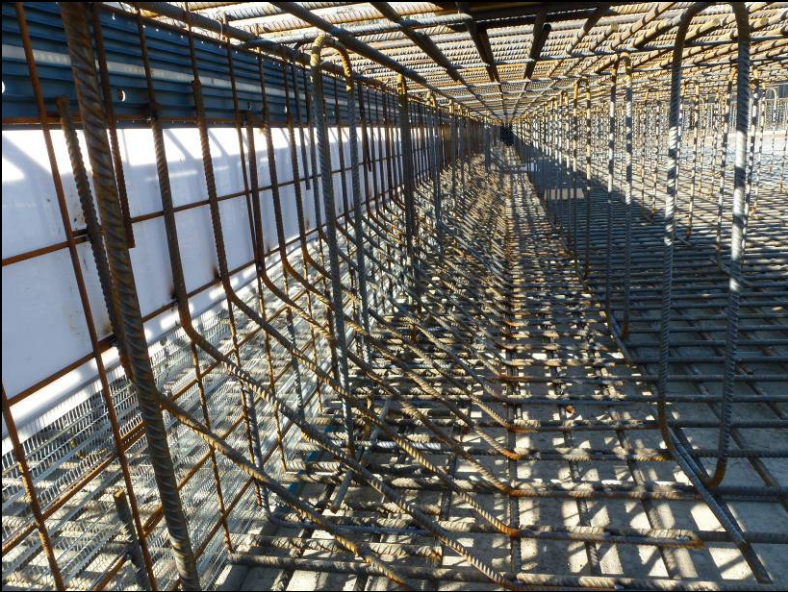


## IGROTAC® ISOTANK – Waterproofing of underground structure Crack inducing elements and Casting of the Foundation.

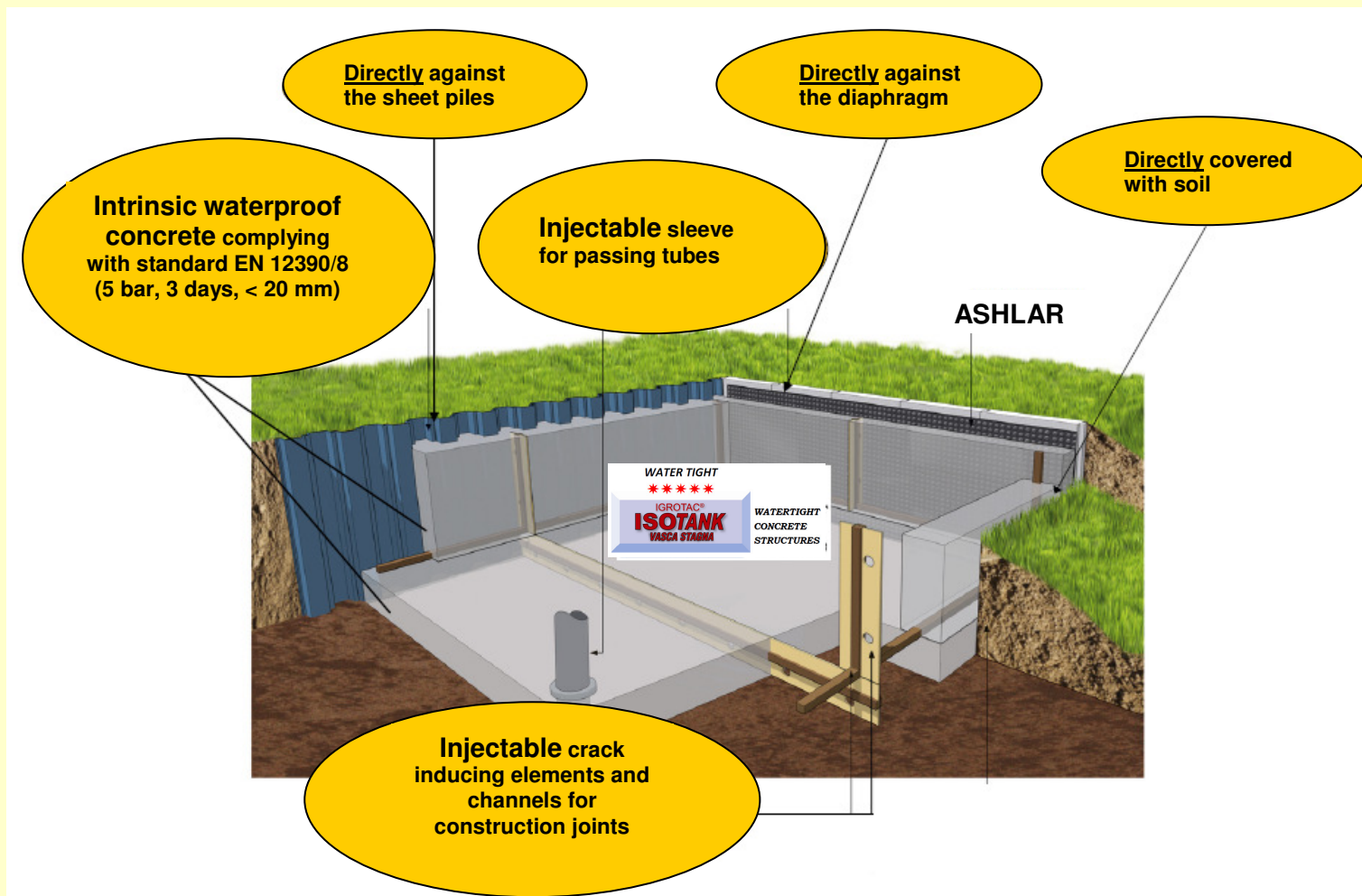




# New Polyfunctional Building Via Manzoni - Rozzano



## Schema of the Elements “WATERTIGHT” ISOTANK



**Crack inducing elements (patent n° MI2012A000469) injectable- Injectable Day joint channels – Injectable sleeves**

**Against Soil, Against Diaphragm, Against Sheet piles, Against 'Berliners'**

**Waterproof concrete 5 bar x 3 days, max. depth of penetration ≤ 20 mm**

**Requests for information and/or assistance :**

**Send e-mail to the 'Office for Project Promotion and Assistance**  
**[uapp@tecnochem.it](mailto:uapp@tecnochem.it)**

**Pls consult our web-site**  
**[www.tecnochem.it](http://www.tecnochem.it)**