COMPANY PROFILE

- Year of establishment 1977
- Headquarters, Marketing, Production, R&D, Laboratories: 24030 Barzana (Bergamo - Italy)
- Construction Product Line - International Marketing Office: 3530 Houthalen (Bruxelles - Belgium)
- Liquid Processing Chemicals Product Line - International Marketing Office: 1028 Prévéranges (Lausanne - Switzerland)
- Exportation: in more than 50 countries approx 48% of total production
- The company management has been since from the first beginning operative with the Quality Systems basical criteria and according to ISO 9001:2008 certification since Feb. 1993 (one of the first 400 Italian Companies): design, manufacture and selling of CONSTRUCTION & LIQUID PROCESSING CHEMICALS product lines.

Approval marking: Control of factory production

ICMQ Certificate 1305 - CPD - 0017
ICMQ Certificate 1305 - CPD - 0808
ICMQ Certificate 1305 - CPD - 0810

These certificates attest that all provisions concerning the attestation of factory production control were applied as described in Annex ZA of the Standards:

EN 934-2 - EN 934-4
EN 1504-2 - EN 1504-3
EN 1504-4 - EN 1504-5
EN 1504-6 - EN 1504-7

As consequence, the obligatory (CE) approval marking of the interested products

BASIC MARKETING FIELDS

C.Te - Construction Technology Division
Products and Technologies for Civil, Industrial, Infrastructural Building & Constructions & Maintenance

I.A.T. - Innovative Applied Technologies Division
Cutting-Edge Engineering Technologies Applications

L.P.C. - Liquid Processing Chemicals Division
Liquid Processing Chemicals for Minerals, Cement, Nanotechnologies

L.A.J.V - License Agreements Joint Ventures

PRODUCTION LINES

POWDER FORMULATIONS
LIQUID FORMULATIONS
POLYMERS & RESINS
**Briefing on Main Technological Families** : "from Project to Jobsite"

### Very High Durability Reinforced Concretes

Admixtures, Additions and Technologies for the Durable Reinforced Concretes and Super-Concretes

- Tecnos® azur®
- SHRINKO-tec®
- Plastard®
- Xarlon®
- Microbeton® POZ
- Cemex
- Plastixim®

### Products and Technologies for the Protection, Repair and Strengthening of Reinforced Concrete

- MuCis®
- SHRINKO-tec®
- RB-energy®
- RAP-tec®
- SELF-tec®
- STABIL-tec®
- HFE-tec® FIRE

### Multiple Corrosion Inhibiting Synergies

#### UHPFRC - Ultra High Performance Fiber Reinforced Cementitious Composites -

Structural Strengthening and Seismic Retrofitting of Reinforced Concrete Structures and Masonries

Innovative Structural and Architectural Vision and Design

#### Shapes Engineering with Architectural Elements at Low Thicknesses, Very High Fracture Energy Surfaces Texturing

#### ECC - Engineered Cementitious Composites -

Very High Deformation Energy High Ductility Structures and Repairs

### Products Technologies Innovation for the Repair and Construction of Durable Concrete Pavements also with Very Fast Open to Walkability (1 hour) and to Traffic (3 hours)

- STABIL-tec®
- RAP-tec®
- Microbeton® ASPHALT GROUT
- Tecnoepo Flooring System

### Products and Technologies for the Underground Structures Waterproofing - Decks Terraces Balconies -Waterproofing - Renewal of Masonries

- ISOTANK
- BENTOTEC
- CRYS-tec® PLUS
- ELASPLAST PLUS

### Products and Technology at Service of Art and Art History

- ASPER®
- ADHEWAT®
- SPARTYTE®
- LINE INJECTION
Construction Division

International Awards

ICRI 2002 PROJECT AWARD WINNERS

ICRI 2002 Project Award Winners

CONSTRUCTION AWARD: Innovative Concrete Structures

Project: Repair of the Wiala Dam Concrete Structures
Recognized for Excellence in the Repair of Water Structures
October 21, 2002

Honor Mention Award
Presented to
TecnoChem Italiana S.r.l.

ICRI 2009 PROJECT AWARD WINNERS

ICRI 2009 Project Award Winners

Awards for Excellence: Innovative Category

Project Description: Application of a Concrete Reinforced Composite Steel
Submitted by: Tecnocem Italiana S.p.A.

Award of Excellence
Presented to
Tecnocem Italiana S.p.A.

ICRI 2010 PROJECT AWARD WINNERS

ICRI 2010 Project Award Winners

HFE-tec®
High Fracture Energy Technologies

Award of Excellence
Presented to
Tecnocem Italiana S.p.A.

ICRI 2012 PROJECT AWARD WINNERS

ICRI 2012 Project Award Winners

REFOR-tec®
Reactive Forces Technologies

Award of Excellence
Presented to
Tecnocem Italiana S.p.A.

SEISMIC REFINISHING OF FLOORS WITH LOW THICKNESS
U.H.P.F.R.C. MICROCONCRETE

Recognized for Excellence in the Special Projects Category
October 21, 2012

Award of Excellence
Presented to
Tecnocem Italiana S.p.A.
Innovative Applied Technologies Division

REFOR-tec®
Reactive Forces Technologies

- Underground Structures Waterproofing with Intrinsically Impermeable Reinforced Concrete
- Artificial Tunnels Waterproofing with Intrinsically Impermeable Reinforced Concrete
- Natural Tunnels Waterproofing with REFOR-tec® Technology

REFOR-tec® ART
From Nanotechnology
Architectural Innovative Solutions

Innovative Personal Ambience, Exclusive and Unique Solutions, No Limit to Imagination & Creativity. REFOR-tec® ART solutions: design of superior quality combining structurally high resistant elements with light weight, aesthetics, nature chromatic, durable, fire resistance, sustainable solutions.

RAPI-tec®
Faster, Stronger, Durable, No Shrinkage

Repair, Aesthetics and Construction of R.C. Pavements with Fast Walkability (1 hour) and Trafficability (3-4 hours) – No Shrinkage – High Durability – Low Thickness (from 8 mm).

REFOR-tec® rigidity
RAPI-tec® solar


REFOR-tec® Metal Plus

Cutting-Edge Products with Very High Strengths and Ductility - as substitute of Metals - with Outstanding Physical and Mechanical Properties - for Precast Load Bearing Elements and Structures: 3D free geometry, strengths, stiffness, reduced weight, toughness, durability and highly competitive price-to-weight ratio

STRULISA®
Structure Life Saver

Structural Strengthening and, when needed, Seismic Retrofitting of R.C. Deteriorated Structures with Guaranteed Corrosion Inhibition & Online Monitoring System

IGROTAC®
ISO TANK
VASCA STAGNA

WATERTIGHT CONCRETE STRUCTURES
The TC-line for minerals consists of processing chemicals especially adapted for the grinding of a wide range of industrials minerals, improving the overall grinding mill performance as well as the flowability of the processed mineral powder.

**The TECNOCHEM LPC LINE for Minerals Processing**
- The TECNOCHEM LPC - LINE for Mineral Processing represents a wide range of high performance Liquid Processing Chemicals, also known as Grinding Aid for both fine and superfine mineral powders.
- TECNOCHEM LPC are organic substances. When added to the grinding mill at low dosage rates, they allow significant mill output increases, depending on the grindability of the mineral, the product fineness to be achieved, as well as on the characteristics of the grinding process.
- In addition, the particle size distribution, the flowability and the quality of the ground material are considerably improved.
- Tecnochem has achieved extensive experience with Calcium Carbonate grinding as well as a wide range of other minerals.
- Each TECNOCHEM LPC is selected according to the characteristics of the mineral to be ground; the selection will also take into consideration the final application of the processed mineral. Strict health and safety regulations make this consideration a key factor, which is supported by the ISEGA Certificate of Conformity.
- The final determination of the most suitable and cost efficient TECNOCHEM LPC must always be done by on-site industrial tests.

**TECNOCHEM LPC for Cement Grinding**
Also known as Grinding Aids for the grinding of cement clinker and secondary constituents.

**TECNOCHEM TC Line for Cement**
- The TECNOCHEM TC- LINE comprises a wide range of high performance Liquid Processing Chemicals, also known as Cement Grinding Aid
- Liquid Processing chemicals are organic substances.
- They are added to the grinding mill at low dosage rates.
- TECNOCHEM LPCs allow significant mill output increase; between 5-30 %, depending on the grindability of the clinker and the addition rate of secondary constituents, as well as on the process characteristics.
- The flowability and the quality of the ground material is considerably improved.
- Tecnochem also develop various, tailor-made formulations of Liquid Processing Chemicals. These are especially adapted to each cement producer's technical needs and production target. Once the objective has been set and the components of the cement recipe run through a lab-test, the best suitable LPC is chosen based on these lab-test results. Further optimisation of the TECNOCHEM LPC is possible. This may only be done after industrial tests in the cement factory

**TECNOCHEM QC Line Quality Conditioners**
- The TECNOCHEM QC- LINE comprises traditional and new generation TECNOCHEM LIQUID PROCESSING CHEMICALS for the grinding of cement clinker and secondary constituents.
- These products give a combined grinding aid and quality conditioner effect
- They permit an increased addition of secondary constituents while the strength properties are maintained or improved.

**Liquid Processing Chemicals for Functionalized NanoMinerals and NanoCements for High-Tech & Cutting-Edge Industrial Applications.**

**Multiscale Molecular Modelling**
Know-How
High-Tech & Innovation
Cutting-Edge Products & Formulations & Technologies
Engineering & Specialized Applications
Project & Installation of Complete Production Plants

Countries Selection Criteria
A) Countries with Positive and Strong Rate of Growth
B) Countries with Seismic Hazard

Already Operative
- License Agreement in India, Royalties starting from 2015
- Joint Venture in Qatar
- Advanced Negotiations in 3 Countries
- Initial Negotiations in 10 Countries
Between 1990 and 2014