

## ENDLESS SOLUTIONS

Products, technologies and innovative solutions for constructions and green-building

# Welcome to Azichem's world

The logo for Azichem, featuring the word "aziChem" in a stylized white font with a blue underline, set against a dark blue background.

# Who we are



- Azichem is an Italian family-owned company which produces and distributes special materials for the building trade, either residential or infrastructural. **Azichem develops and innovates its own formulas since 1987.**
- Azichem belongs to a Group of companies whose core business is the **supply of materials and products for the constructions, operating since 1956.**
- The Group develops its activities in:
  - Quarrying, processing and selling aggregates and granulates
  - Ready-mix concrete
  - Production of chemicals for the building trade, either powders or liquids
  - Trading and distribution of basic construction materials
  - Real-estate

- Azichem's technical director, Edoardo Mocco, is a 40-year experienced chemical developer and formulator.
- Azichem is well-known in the domestic market for having been a **pioneer and innovator in many market segments**, such as:
  - 1<sup>st</sup> in Italy: use Polymeric fibers for FRC grouts
  - 1<sup>st</sup> in Italy: Water-swelling injection resins (SYNTECH H.A.G.®, 1987)
  - 1<sup>st</sup> in Italy: launch a Green Building product line (SANAGEB®, 1994)
  - “Ad-Mix” concrete waterproofing technologies (BETONSAFE®, 2002)
- Since recently, Azichem is establishing collaborations within several European and Extra-European countries, like Spain, Portugal, Switzerland, Romania, Bulgaria, Moldova, Morocco, Tunisia, etc.

# The production



Automation, precision and adaptability characterize Azichem's production centre, comprising of different **production lines for both powder and liquid products.**

Our plant is equipped with sophisticated automation systems for dosing, mixing and packing.

We are highly regarded as a company able to **quickly and efficiently** respond to any need our customers may have.



**High professionalism and total availability** of our personnel towards the customer's requests.

**Transports and logistics services swift, prompt and reliable**, these are our motto!

More than 6000 sqm of total covered surface, between production plant, central warehouse and external loading area.

**An ever-growing distribution network**, which can rely on more than 150 between agents, resellers, local distributors, points of sales, etc.

# Certifications and quality check



Azichem checks the quality of its products and of its production process thanks to a well equipped internal testing site and a certified external laboratory.

Quality management is guaranteed by the **ISO 9001:2008 certificate**, issued by the prestigious international organization Intertek.

Almost all of Azichem's production is **CE certified**, to ensure you the highest standards of quality and performance.

# Always close by the client

**aziChem**<sup>®</sup>

At the office, inside a tunnel, at the construction site... everywhere!

Our qualified and competent staff is at client's disposal to give the needed assistance and helping **solve even the most difficult problems!**





# www.azichem.com: the most fitting product, the most up-to-date technical information

**aziChem**

The portal [www.azichem.com](http://www.azichem.com) it's a powerful and dynamic tool at the client's service.

News, highlighted products, technical documents, FAQs, application protocols, tech specs, safety sheets, and many more! An indispensable tool to visit and refer to constantly over time.

**aziChem**  
PRODOTTI SPECIALI PER L'EDILIZIA E LA BIOEDILIZIA

Italiano

Chi Siamo   Prodotti e tecnologie   Problemi e soluzioni   Contattaci

Cerca in Azichem

**...ai cantieri quotidiani**  
Vicini ai professionisti di settore, per ogni loro esigenza

**NEWS E APPROFONDIMENTI**

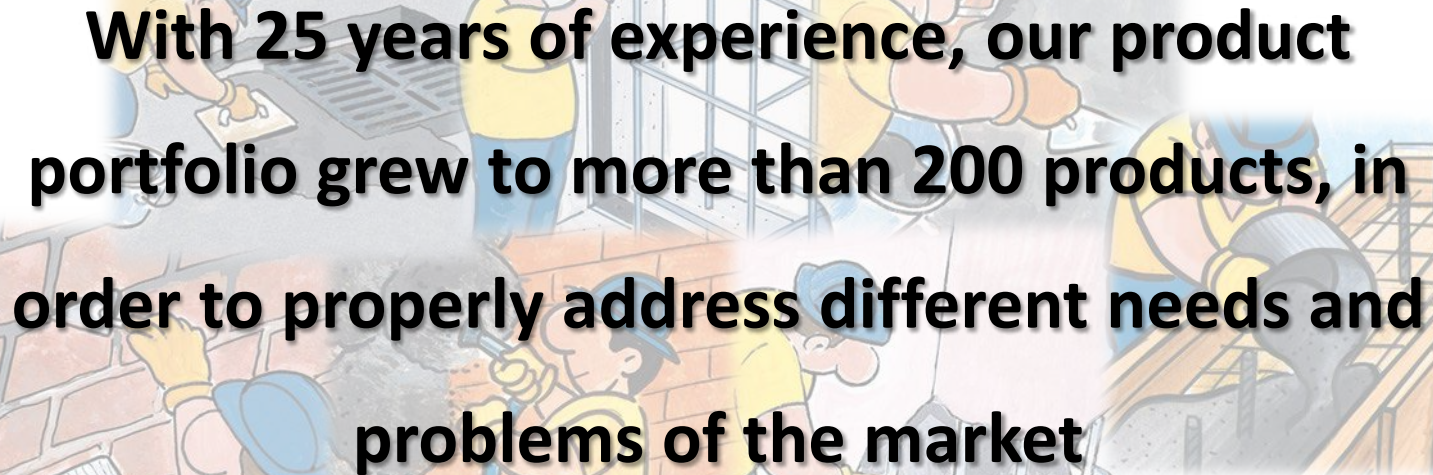
**RELAZIONE fra il DIAMETRO e la SUPERFICIE SPECIFICA ( effetti pratici )**

**SUPERFICIE SPECIFICA: IMPLICAZIONI PRATICHE**  
▲ Edoardo Mocco   ■ 13/05/2015  
effetti pratici della relazione fra il diametro massimo e la superficie specifica totale

**Contattaci subito**  
per informazioni, dubbi, domande, ordinazioni  
**clicca sulla mappa**

**Our philosophy:  
a solution for every problem**

**aziChem®**



**With 25 years of experience, our product portfolio grew to more than 200 products, in order to properly address different needs and problems of the market**

# 5 Linee Prodotti

**aziChem**





Product line: STOP ALL'ACQUA

**aziChem**

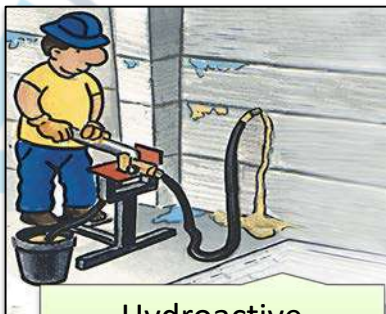
**Products and accessories for sealing and waterproofing residential, industrial, civil and rural constructions.**



# Product line: STOP ALL'ACQUA



Waterstops and bentonite sheats



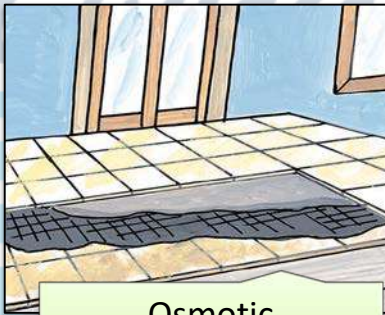
Hydroactive polyurethane resins



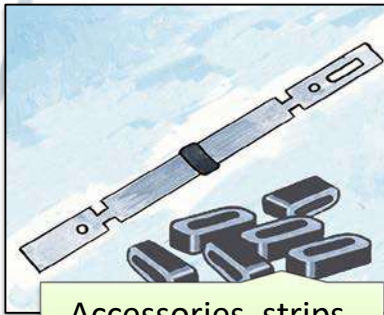
Hot-sprayed pure polyurea



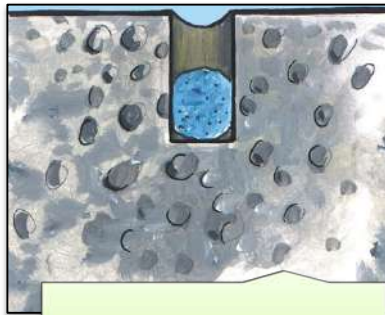
Protech Balcony®



Osmotic cementitious grouts



Accessories, strips, gaskets



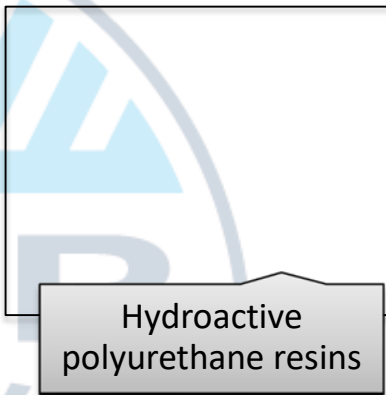
Sealants



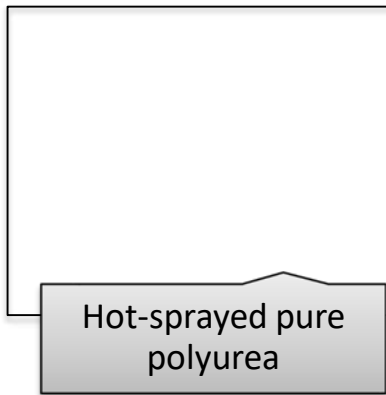
# Product line: STOP ALL'ACQUA



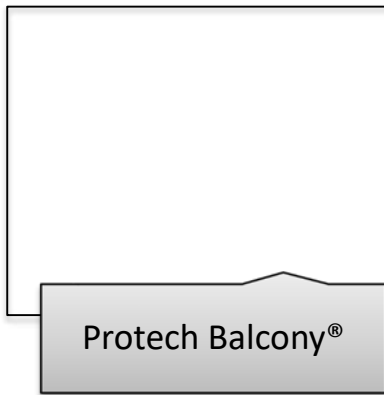
Waterstops and bentonite sheats



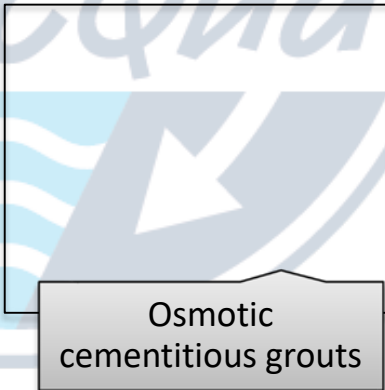
Hydroactive polyurethane resins



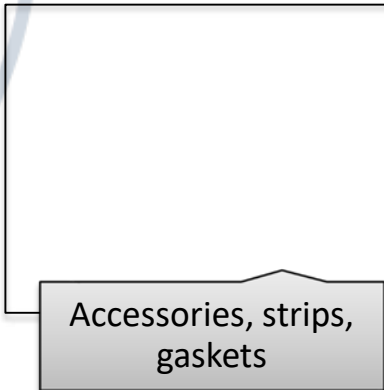
Hot-sprayed pure polyurea



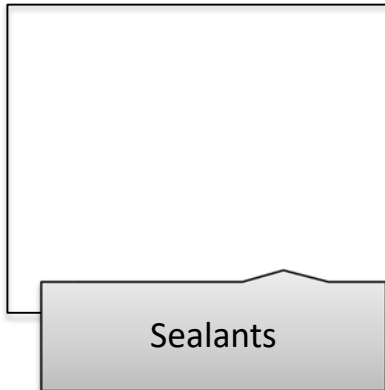
Protech Balcony®



Osmotic cementitious grouts



Accessories, strips, gaskets



Sealants

# Waterstops and bentonite sheats

**Bentonite sheats CLAYTEX**



**Bentonite waterstop stripes CLAYSEAL 25.20**



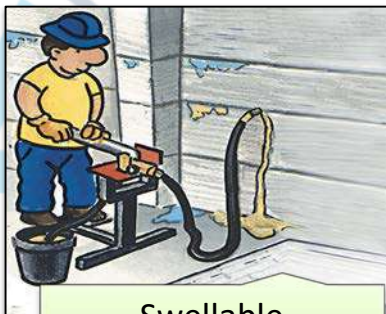
**Bentonite in grains  
CLAYGRAIN**



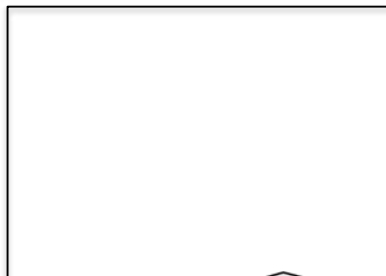
# Product line: STOP ALL'ACQUA



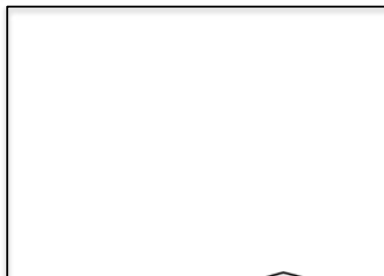
Waterstops and bentonite sheats



Swellable polyurethane resins



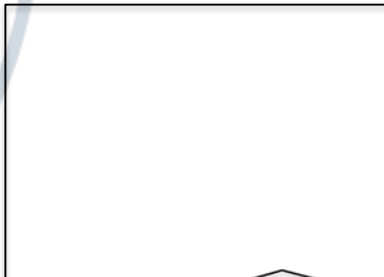
Hot-sprayed pure polyurea



Protech Balcony®



Osmotic cementitious grouts



Accessories, strips, gaskets



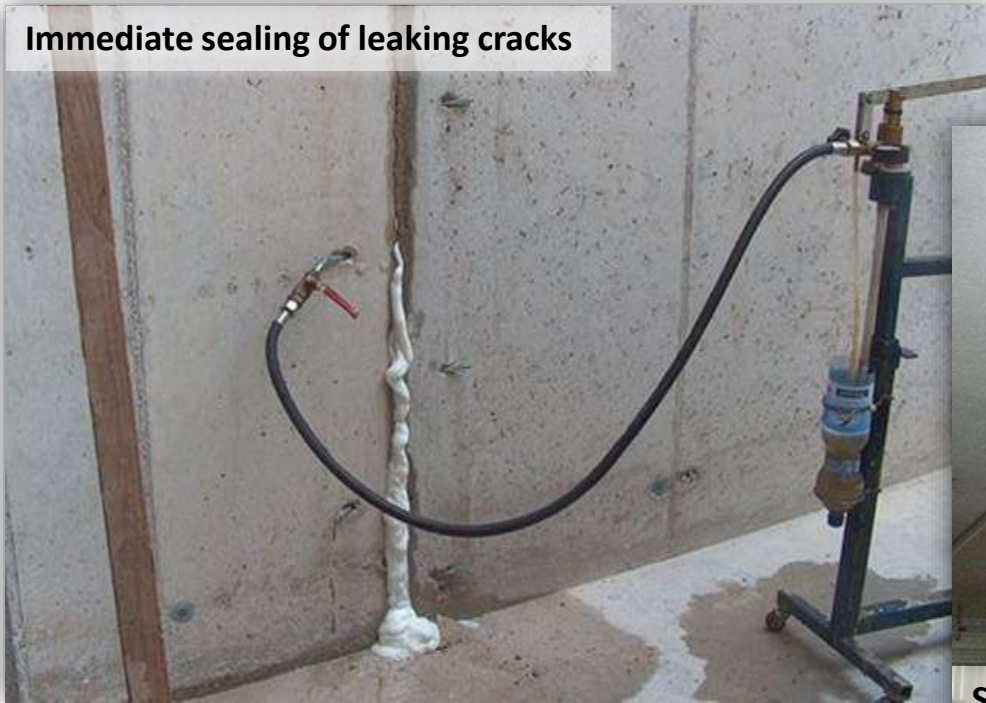
Sealants



# Swellable polyurethane resins

**aziChem**<sup>®</sup>

Immediate sealing of leaking cracks



Stop water filtrations in  
Predalles flooring systems

# Swellable polyurethane resins

**aziChem**<sup>®</sup>



... in concrete water ducts



Also applicable in  
dams and reservoirs!

# Swellable polyurethane resins

**aziChem**<sup>®</sup>



Sealing moving joints in industrial environments



# Product line: STOP ALL'ACQUA

**aziChem**

Waterstops and bentonite sheats

Hydroactive polyurethane resins



Hot-sprayed pure polyurea

Protech Balcony®

Osmotic cementitious grouts

Accessories, strips, gaskets

Sealants

# Hot-sprayed pure polyurea

**aziChem**<sup>®</sup>

Terraces and balconies



Roof gardens

# Hot-sprayed pure polyurea

**aziChem**<sup>®</sup>



Parkings and carriageable surfaces

# Hot-sprayed pure polyurea

**aziChem**<sup>®</sup>



On the existing bitumen sheat



On metal

# Hot-sprayed pure polyurea

**aziChem**<sup>®</sup>

Dams and reservoirs



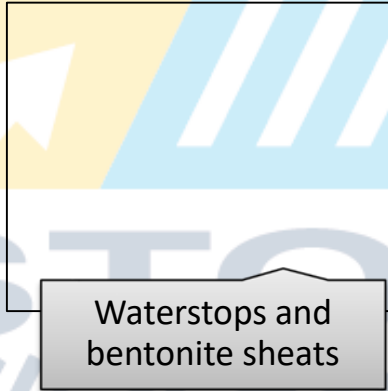
Aqueducts and water channels



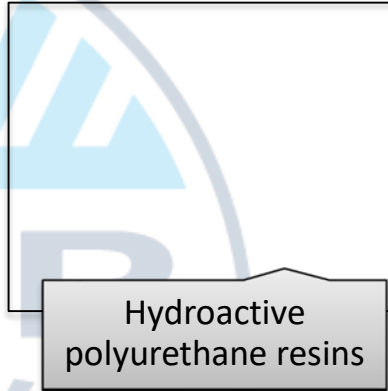




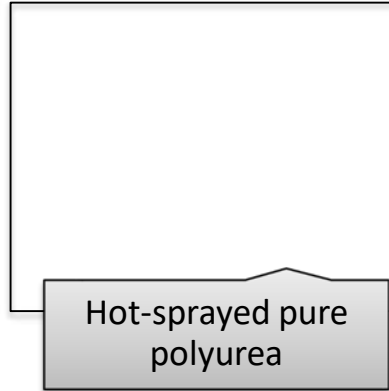
# Product line: STOP ALL'ACQUA



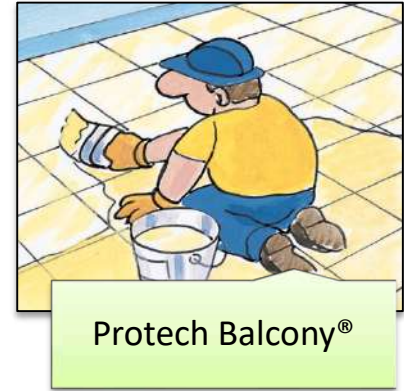
Waterstops and bentonite sheats



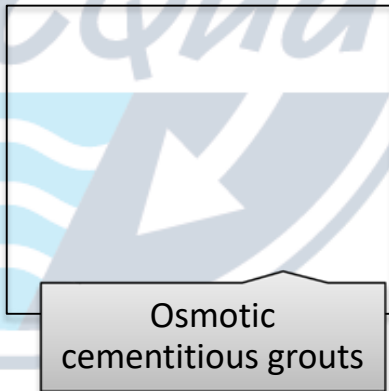
Hydroactive polyurethane resins



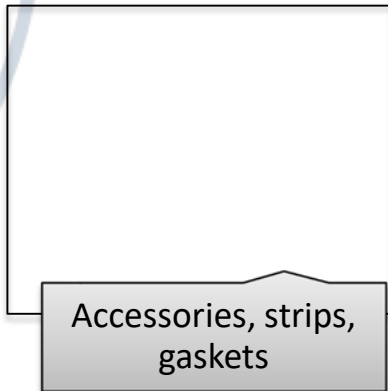
Hot-sprayed pure polyurea



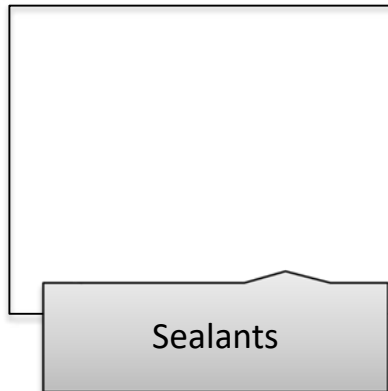
Protech Balcony®



Osmotic cementitious grouts



Accessories, strips, gaskets




Sealants






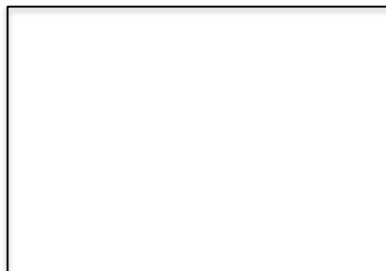
# Product line: STOP ALL'ACQUA



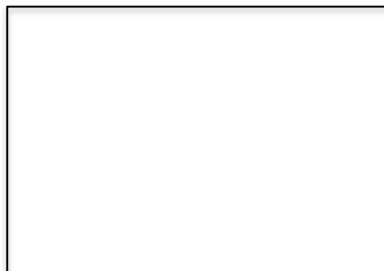
Waterstops and bentonite sheats




Hydroactive polyurethane resins



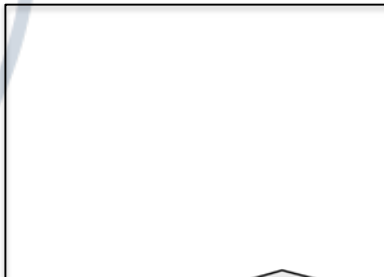
Hot-sprayed pure polyurea




Protech Balcony®



Osmotic cementitious grouts



Accessories, strips, gaskets



Sealants

# Composti cementizi osmotici

**aziChem**<sup>®</sup>

Lift vanes



Junctions coverings



# Composti cementizi osmotici

**aziChem**<sup>®</sup>



The inspection...



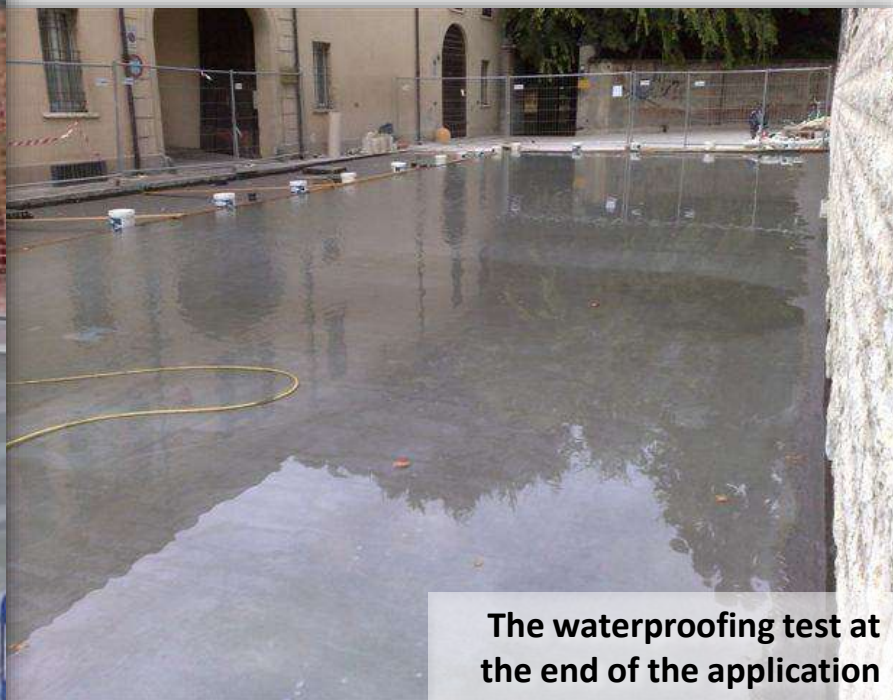
Few of the problems



The solutions with  
OSMOCEM RD

# Composti cementizi osmotici

**aziChem**<sup>®</sup>





# Product line: STOP ALL'ACQUA

**aziChem**<sup>®</sup>

Waterstops and bentonite sheats

Hydroactive polyurethane resins

Hot-sprayed pure polyurea

Protech Balcony<sup>®</sup>

Osmotic cementitious grouts

Accessories, strips, gaskets

Sealants



# Accessories, strips, gaskets

**aziChem**<sup>®</sup>



**Elastic stripe for joint-binding  
ELASTOTEX 120**



**Self-adhesive butyl rubber  
stripe PROBAND**

# Accessories, strips, gaskets

**O-rings for metal spacers  
RINGSEAL L19**



**O-rings for  $\varnothing$  21 mm PVC spacers  
RINGSEAL T21**

**CORKSEAL T21**





# Product line: STOP ALL'ACQUA

**aziChem**<sup>®</sup>

Waterstops and bentonite sheats

Hydroactive polyurethane resins

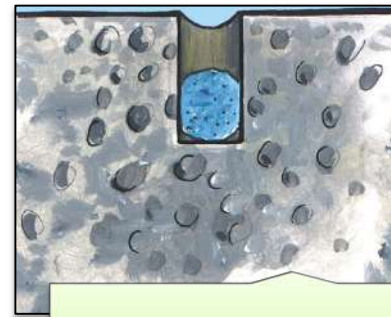
Hot-sprayed pure polyurea

Protech Balcony<sup>®</sup>

Osmotic cementitious grouts

Accessories, strips, gaskets

Sealants



# Sealants

**aziChem**<sup>®</sup>





Product line: BUILDING

**aziChem**<sup>®</sup>



**Products for the restoration,  
dehumidification and the general  
maintenance of residential buildings**



# Product line: BUILDING



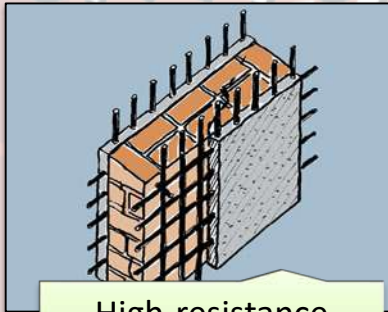
Thermal-acoustic insulating plasters



Dehumidifying plasters



Special bondings and tile adhesives



High-resistance structural plasters



Repair and maintenance



Anti-cracks fibers



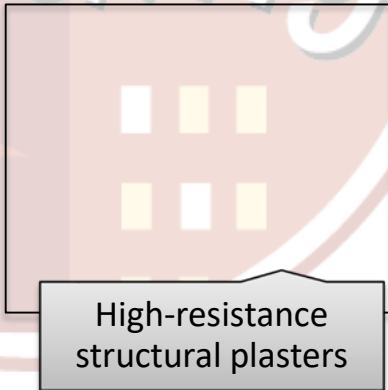
# Product line: BUILDING



Thermal-acoustic insulating plasters

Dehumidifying plasters

Special bondings and tile adhesives



High-resistance structural plasters

Repair and maintenance

Anti-cracks fibers

# SANAWARME: thermal-acoustic ecologic insulating breathable mineral plaster

**aziChem**

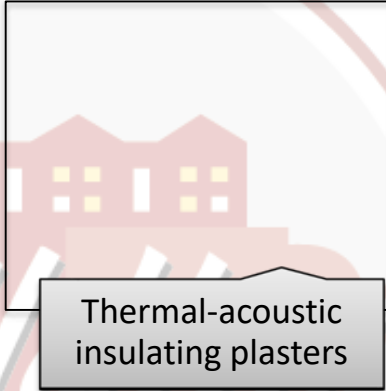






# Product line: BUILDING

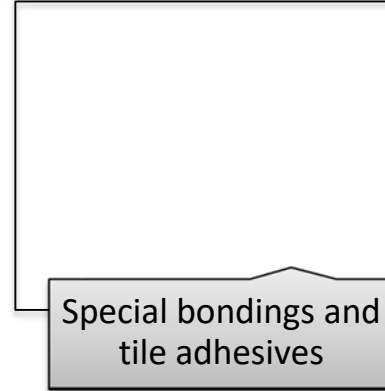
**aziChem**<sup>®</sup>



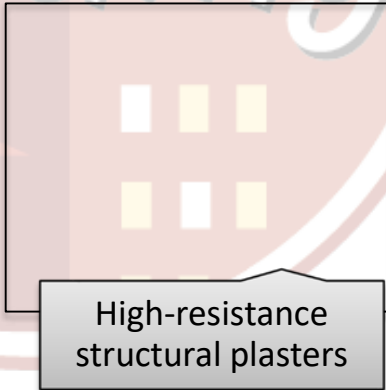
Thermal-acoustic  
insulating plasters



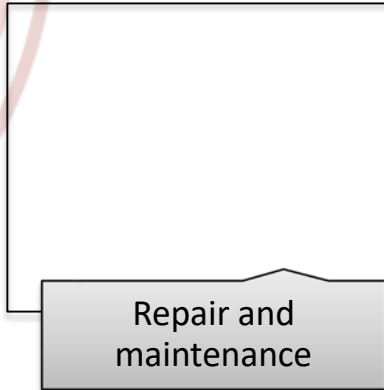
Dehumidifying  
plasters



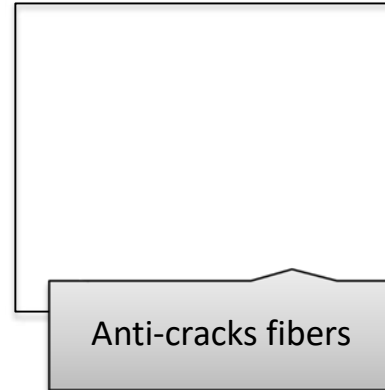
Special bondings and  
tile adhesives



High-resistance  
structural plasters



Repair and  
maintenance



Anti-cracks fibers

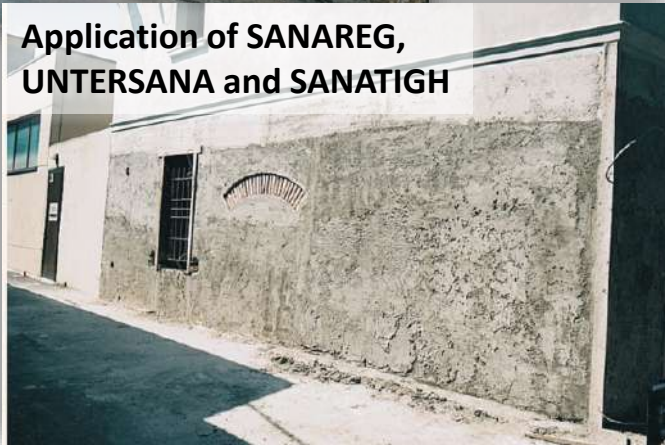
# SANATIGH: damp-proof breathable plaster for humid walls treatment and restoration

**aziChem**<sup>®</sup>

Removal of the old plaster



Application of SANAREG,  
UNTERSANA and SANATIGH

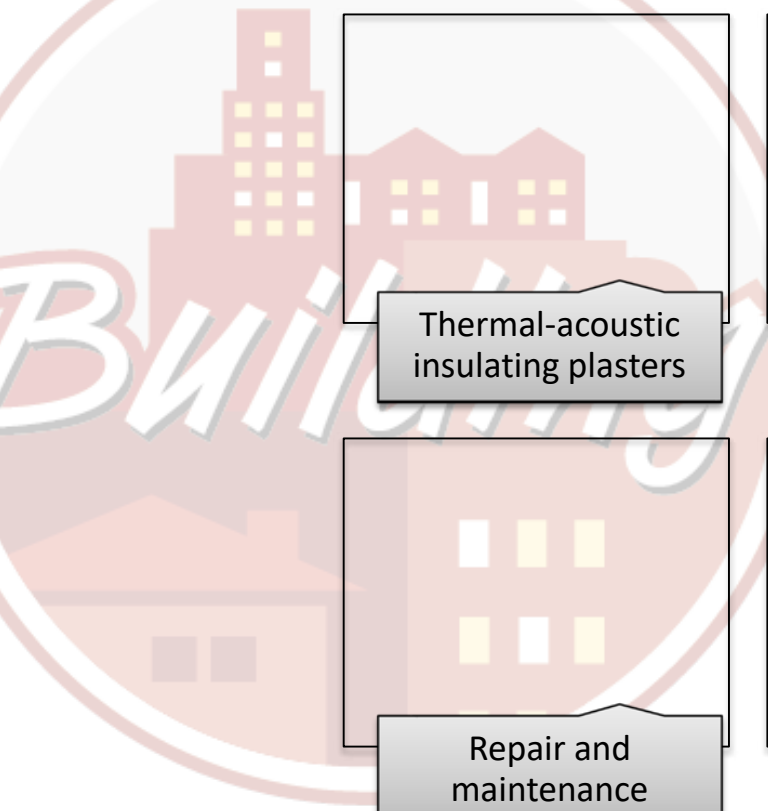


Smoothing plaster  
SANASTOF





# Product line: BUILDING

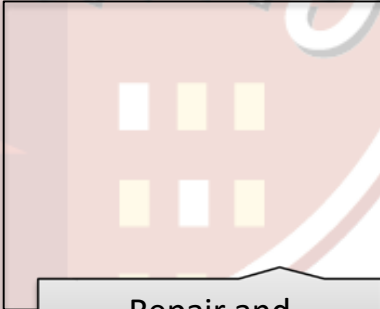


Thermal-acoustic insulating plasters

Dehumidifying plasters



Special bondings and tile adhesives



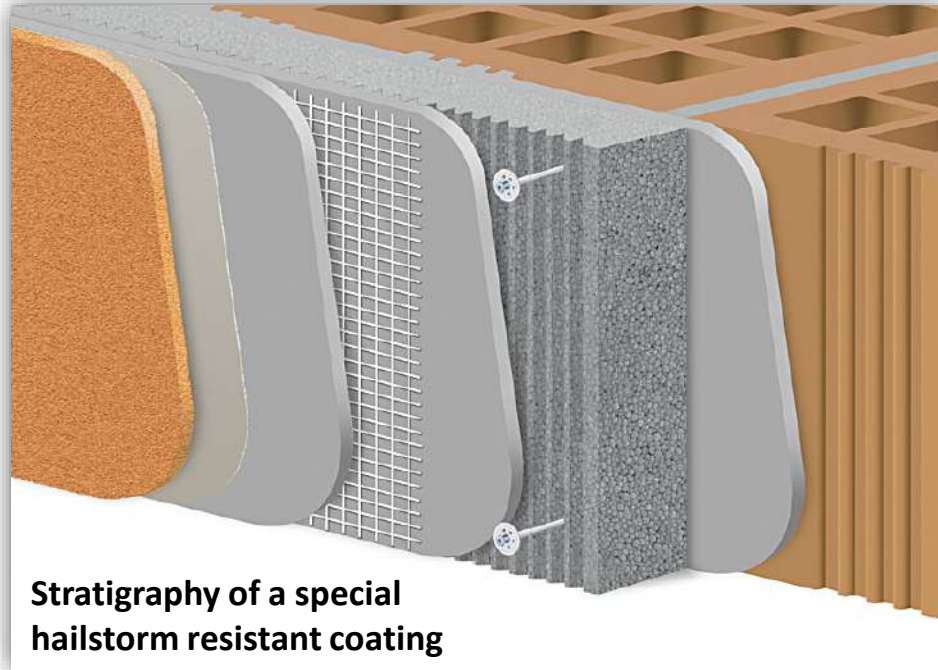
Repair and maintenance

Repair and maintenance

Anti-cracks fibers

# Special bondings and tile adhesives

**aziChem**<sup>®</sup>





# Product line: BUILDING



Thermal-acoustic insulating plasters

Dehumidifying plasters

Special bondings and tile adhesives

High-resistance structural plasters

Repair and maintenance

Anti-cracks fibers

# UNISAN: high-performance breathable structural plaster for «double-layer sandwich reinforcements»

**aziChem**<sup>®</sup>

Preparation of the new steel mesh, anchored to the existing wall

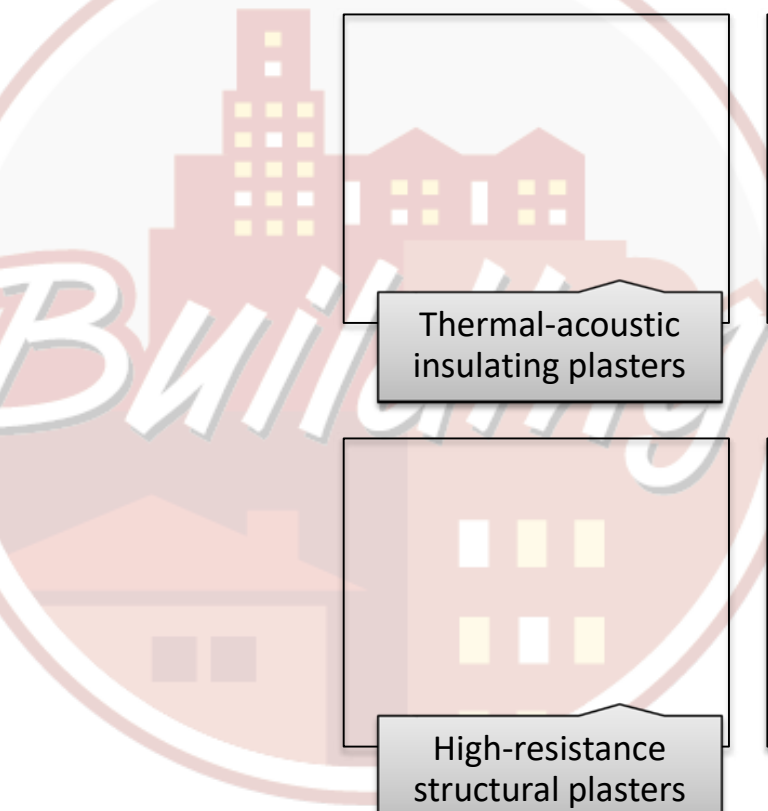


The wall structurally reinforced with a double layer of UNISAN





# Product line: BUILDING



Thermal-acoustic insulating plasters

Dehumidifying plasters

Special bondings and tile adhesives

High-resistance structural plasters



Repair and maintenance

Anti-cracks fibers

# REPAR TIX: multi-purpose thixotropic mortar for construction restorations

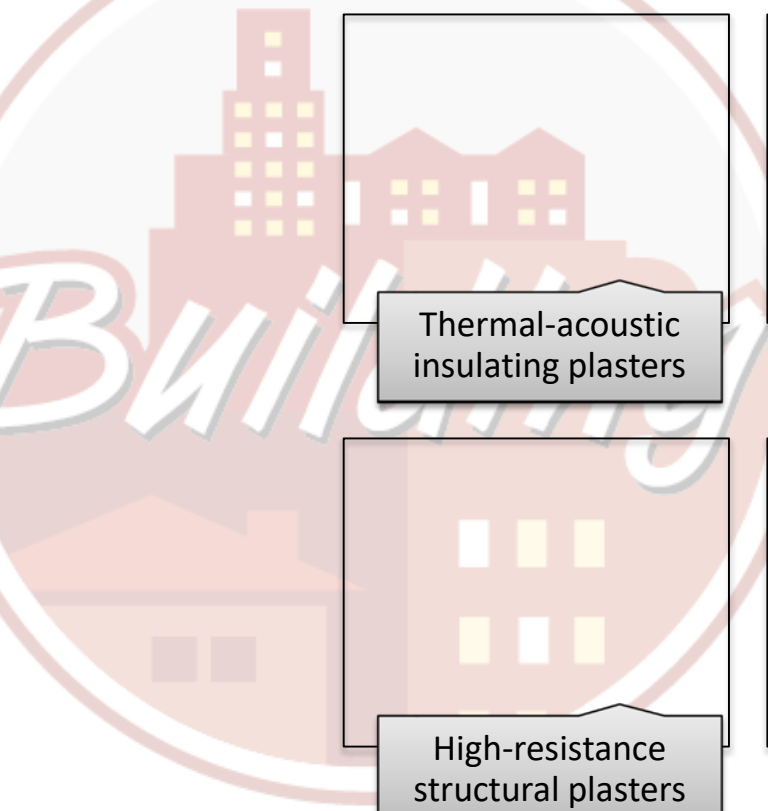
**aziChem**<sup>®</sup>







# Product line: BUILDING




Thermal-acoustic insulating plasters

Dehumidifying plasters

Special bondings and tile adhesives

High-resistance structural plasters

Repair and maintenance



Anti-cracks fibers

# Multifilament and fibrillated polypropylene fibers for crack-control in cement and mortars

**aziChem**<sup>®</sup>

Anti-cracks fibers READYMESH PM-180



For sand-cement screeds



For plastering





Product line: INFRATECH

**aziChem**<sup>®</sup>

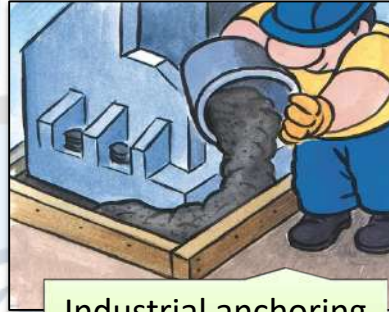
**Products for industrial constructions,  
infrastructures and great works: bridges, tunnels,  
viaducts, dams, reservoirs, channels, ports, etc.**



# Product line: INFRATECH



Pourable mortars for reconstructions



Industrial anchoring and fastening



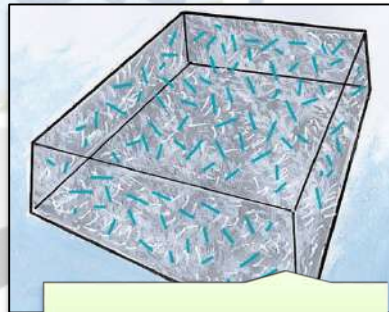
Structural thixotropic mortars



Road joints fastening



Additives for shotcrete



Structural fibers



Thin-layer floor restoration



Surface treatments and hardeners



# Product line: INFRATECH

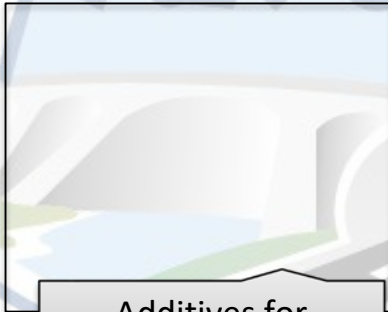


Pourable mortars for reconstructions

Industrial anchoring and fastening

Structural thixotropic mortars

Road joints fastening



Additives for shotcrete

Structural fibers

Thin-layer floor restoration

Surface treatments and hardeners

# Volumetric reconstructions with pourable mortars (example n. 1)

**aziChem**<sup>®</sup>



The wall before the reconstruction



GROUT 6 mixing

# Volumetric reconstructions with pourable mortars (example n. 1)

**aziChem**<sup>®</sup>



**Pouring GROUT 6 in the formworks**



**Volumetric reconstruction completed**

# Volumetric reconstructions with pourable mortars (example n. 2)

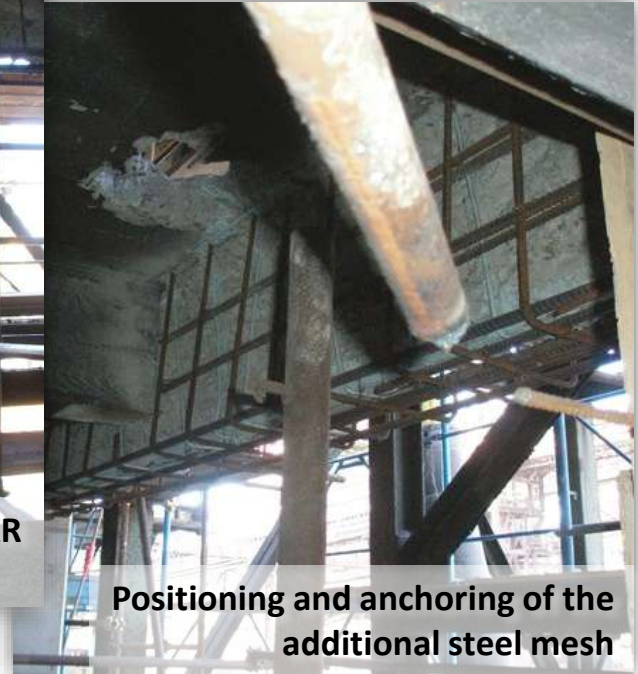
**aziChem**<sup>®</sup>



The situation before the restoration



Anti-oxidation slurry REPAR  
MONOSTEEL



Positioning and anchoring of the  
additional steel mesh



# Volumetric reconstructions with pourable mortars (example n. 2)


**aziChem**<sup>®</sup>

Restoration completed!






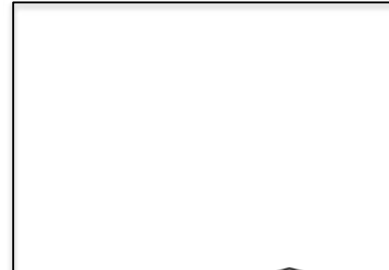
# Product line: INFRATECH



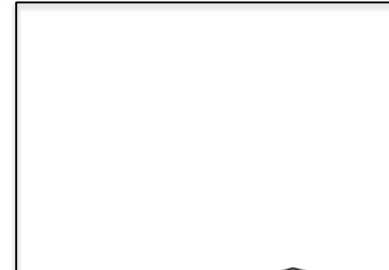
Pourable mortars for reconstructions




Industrial anchoring and fastening




Structural thixotropic mortars




Road joints fastening




Additives for shotcrete



Structural fibers



Thin-layer floor restoration



Surface treatments and hardeners

# GROUT 2 e GROUT 6: high-performance non-shrinking mortars for the industry

**aziChem**<sup>®</sup>

**Anchoring of a piece of machinery  
in a steel-production plant**



**Fastening of tracks for a  
high-precision equipment**



# Product line: INFRATECH



Pourable mortars for reconstructions

Industrial anchoring and fastening

Structural thixotropic mortars

Road joints fastening

Additives for shotcrete

Structural fibers

Thin-layer floor restoration

Surface treatments and hardeners

# Structural restoration with thixotropic mortars

The deteriorated infrastructure



Removal of the old concrete layer

# Structural restoration with thixotropic mortars

**aziChem**



**High-pressure  
hydrowashing**

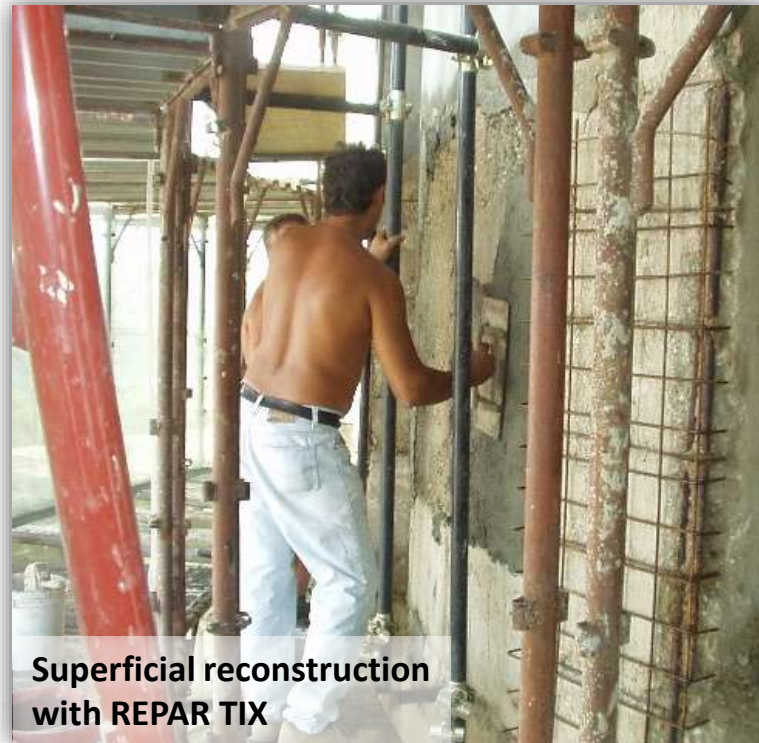
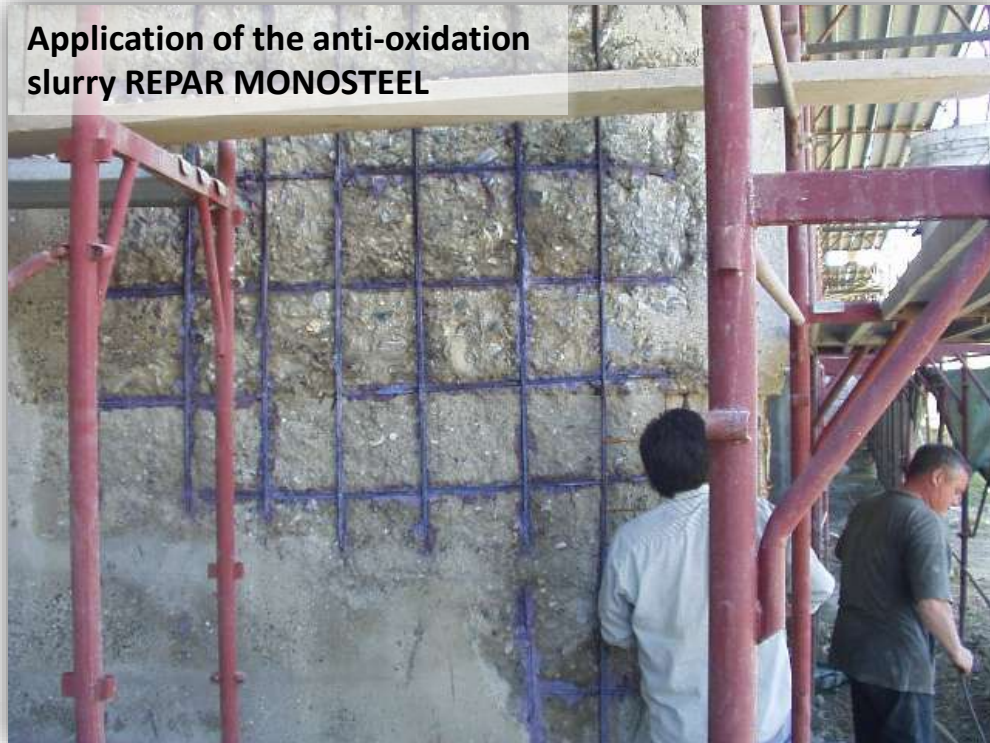


**CONSILEX SAN: restoring the  
concrete's alkalinity**

# Structural restoration with thixotropic mortars

**aziChem**<sup>®</sup>

**Application of the anti-oxidation  
slurry REPAR MONOSTEEL**



**Superficial reconstruction  
with REPAR TIX**

# Structural restoration with thixotropic mortars

**aziChem**<sup>®</sup>



**Final smoothing plastering  
with REPAR SM**



**Finishing the surface with the  
special paint PROTECH WAC**

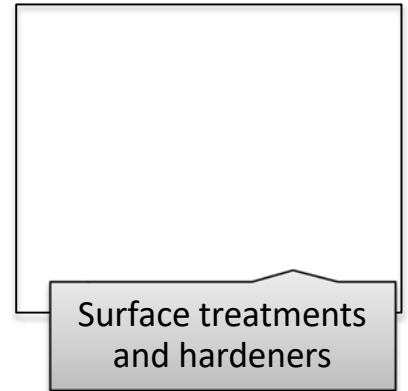
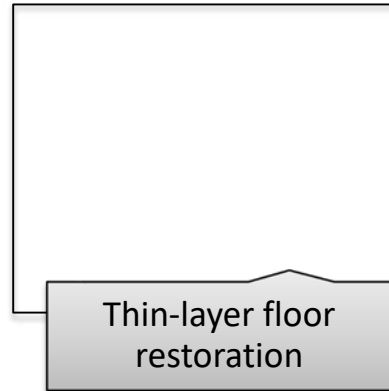
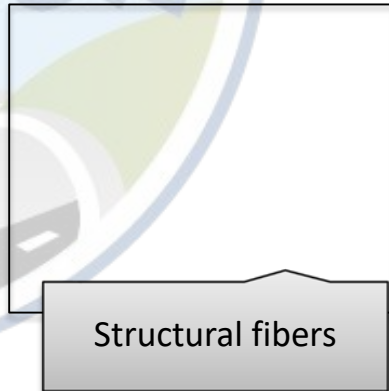
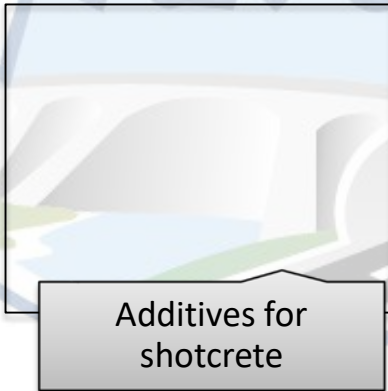
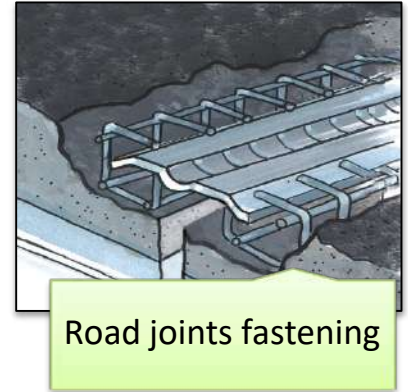
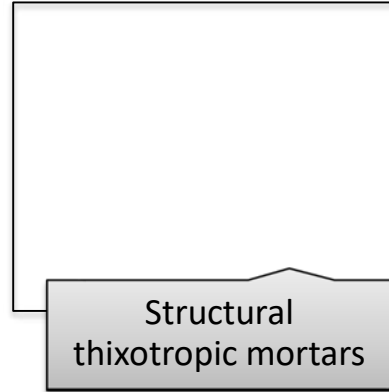
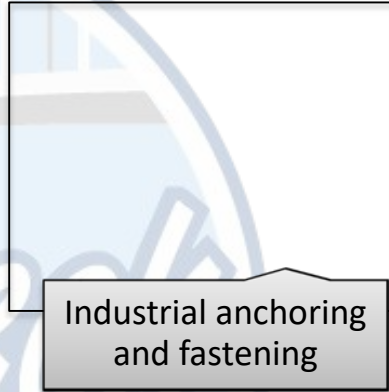
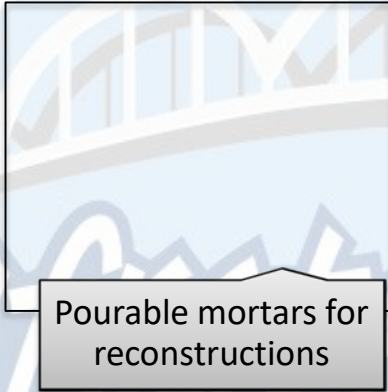


**Restoration completed**





# Product line: INFRATECH



# GROUT 6 SFR: road joints filling and fastening with non shrinking pourable grout

**aziChem**<sup>®</sup>



**Positioning the road joint**



**Pouring the non-shrinking grout**



# Product line: INFRATECH



Pourable mortars for reconstructions

Industrial anchoring and fastening

Structural thixotropic mortars

Road joints fastening

Additives for shotcrete

Structural fibers

Thin-layer floor restoration

Surface treatments and hardeners

# FLUID SPRITZ: sodium-silicates additive for shotcrete

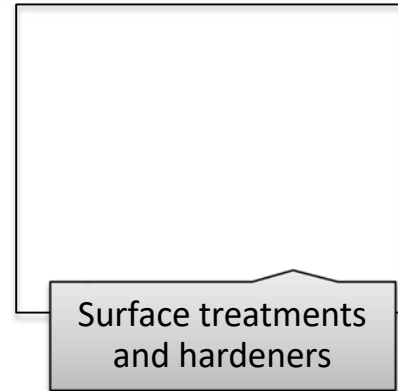
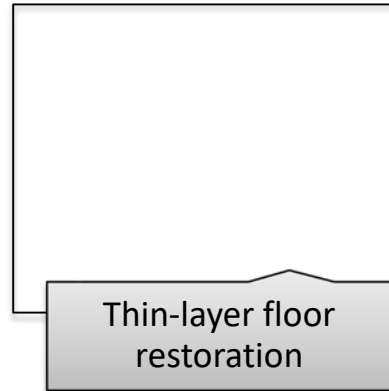
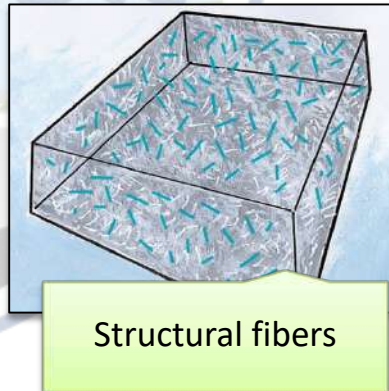
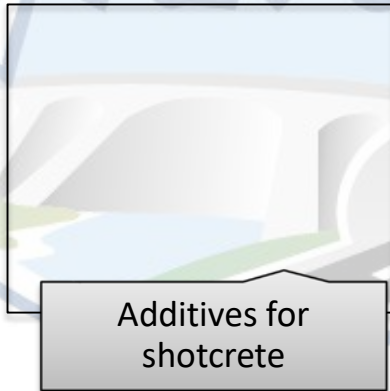
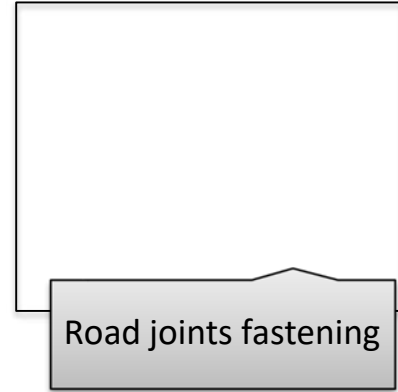
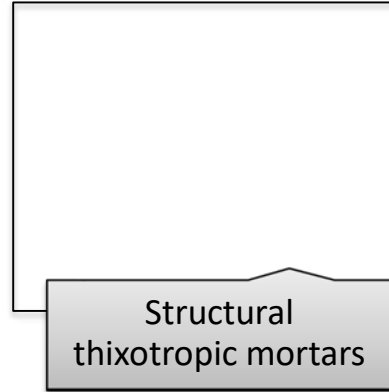
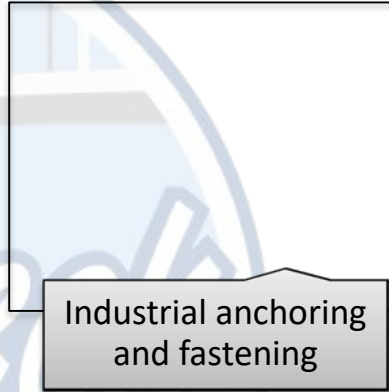
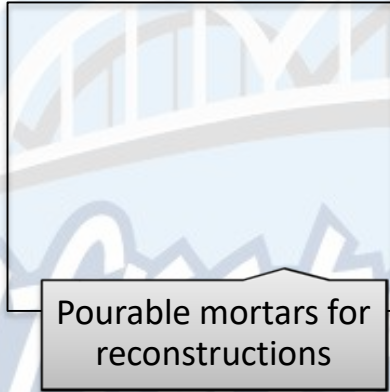
**aziChem**<sup>®</sup>



Shotcrete in the Brenner Basis Tunnel

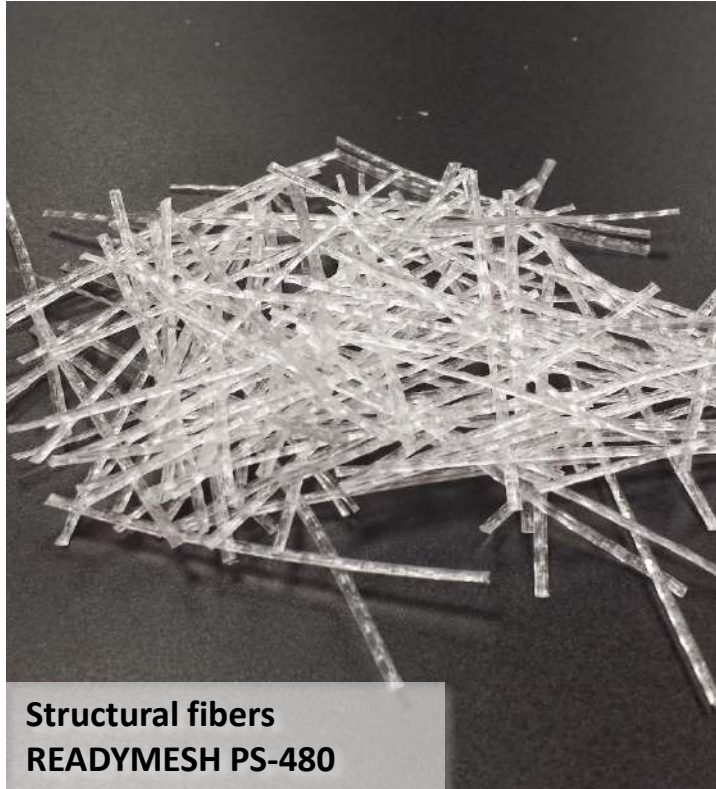


# Product line: INFRATECH



# READYMESH PS-480: monofilament fibers for the structural reinforcement of concrete

**aziChem**<sup>®</sup>



# READYMESH PF-540: structural twisted macro-fibers specifically designed for concrete floorings

**aziChem**<sup>®</sup>



**Structural fibers READYMESH PF-540**



**Special applications**



**Final finishing**



# Product line: INFRATECH



Porable mortars for reconstructions

Industrial anchoring and fastening

Structural thixotropic mortars

Road joints fastening

Additives for shotcrete

Structural fibers

Thin-layer floor restoration

Surface treatments and hardeners



**FLOOR TENAX: thin-layer cementitious screed for restoration and slope-adjustment (0-3 cm thickness)**

**aziChem®**



# FLOOR Q: high-performance cementitious screed for heavy duty applications (2-5 cm thickness)

**aziChem**

Deteriorated public floor



4 cm reconstruction after removal of the old layer



# FLOOR Q: high-performance cementitious screed for heavy duty applications (2-5 cm thickness)

**aziChem**



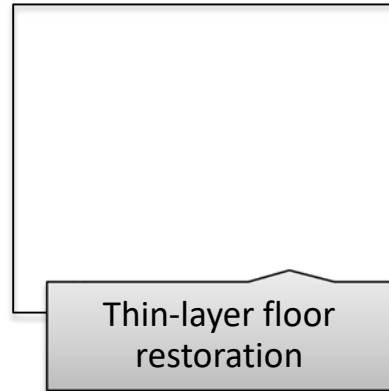
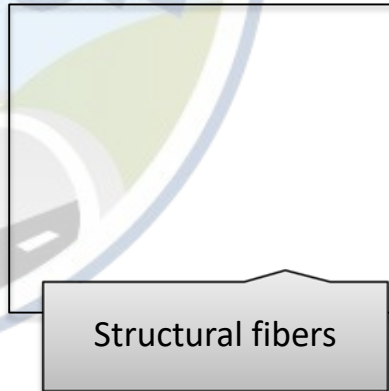
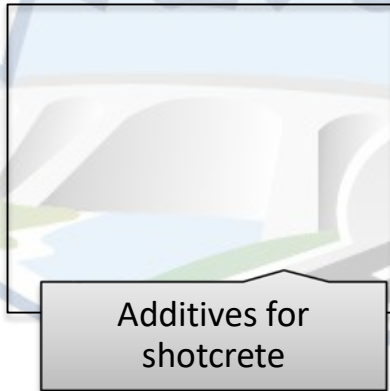
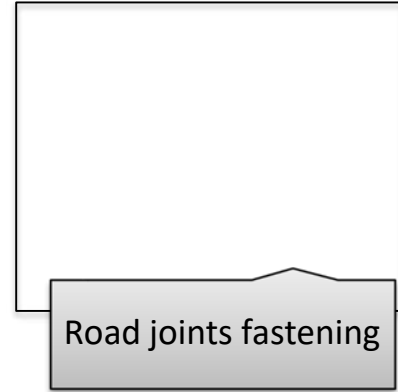
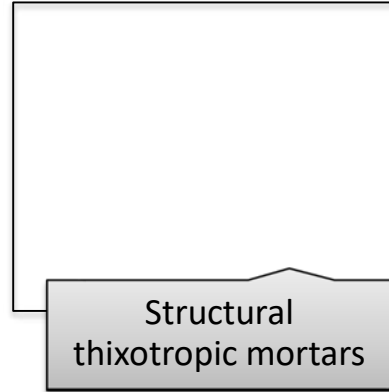
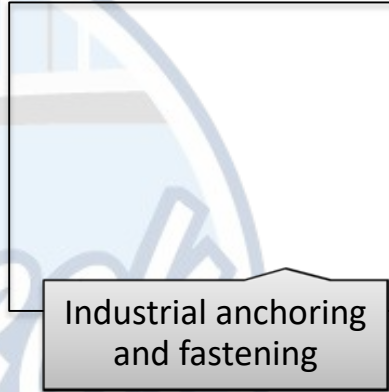
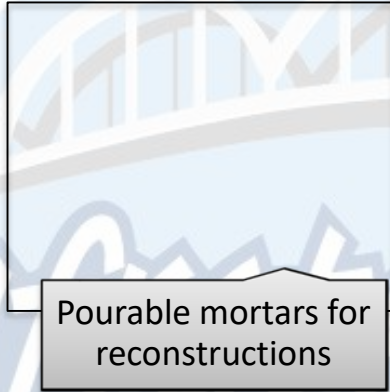
Lucchini steel-factory,  
Piombino LU - Italy



Reconstruction completed



# Product line: INFRATECH



# FLOOR VULKAN: top-performance industrial powder hardener based on quartz, corundum and basalt

**aziChem**<sup>®</sup>



# QL FLUOSIL e QL NANO LITHIUM: liquid penetrating hardening reactive treatments

**aziChem**<sup>®</sup>

Floor treated with QL NANO LITHIUM



# PRERIT: set-retarder solution for “washed concrete” floorings

**aziChem**<sup>®</sup>



Normal flooring construction



Hydrowashing of the concrete surface after having applied PRERIT

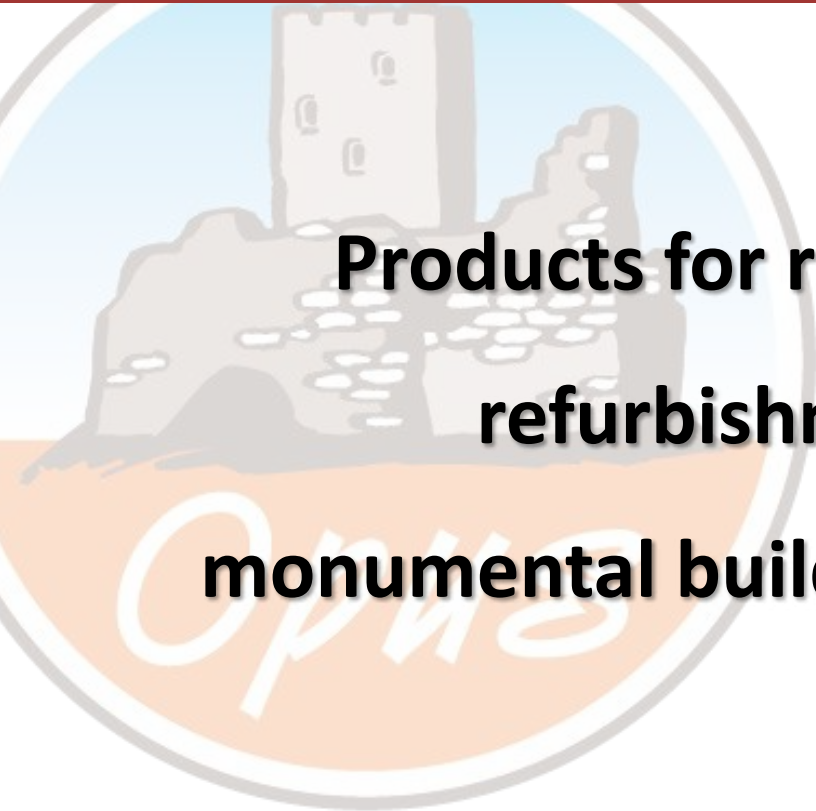
The finishing





Product line: OPUS

**aziChem**<sup>®</sup>



**Products for restoration, maintenance and  
refurbishment of historical landmarks,  
monumental buildings and rural constructions**





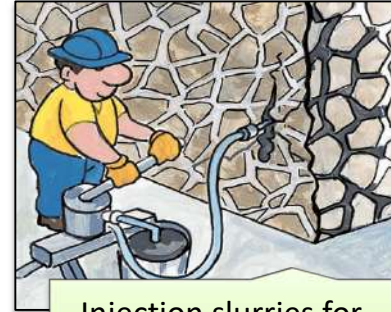
# Product line: OPUS



Joint-filling grouts for masonry



Rising damp blockages with chemical barriers



Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads



Anchoring mortars for frameworks



Seico Compositi®



# Product line: OPUS



Joint-filling grouts for masonry

Rising damp blockages with chemical barriers

Injection slurries for masonry reinforcing

Micro-grouts for cobblestone roads

Anchoring mortars for frameworks

Seico Compositi®


# SANAZIEG: pigmented mortar for aesthetic joint filling in historical masonry restoration

**aziChem**<sup>®</sup>






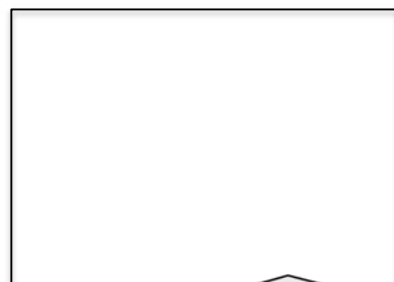
# Product line: OPUS




Joint-filling grouts for masonry



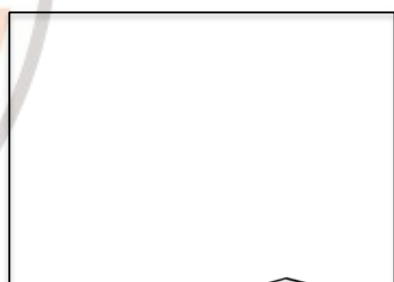
Rising damp blockages with chemical barriers



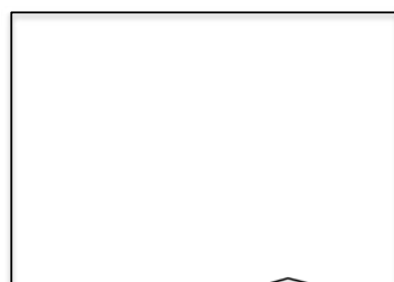
Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads



Anchoring mortars for frameworks



Seico Compositi®


# CONSILEX MAUER MONO: silanic compound for rising damp blockage

**aziChem**<sup>®</sup>

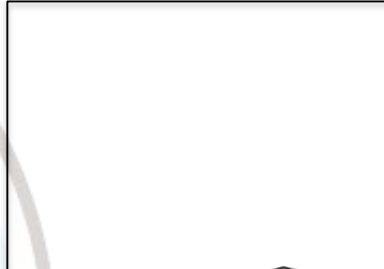





# Product line: OPUS




Joint-filling grouts for masonry




Rising damp blockages with chemical barriers




Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads



Anchoring mortars for frameworks



Seico Compositi®

# SANAFLUENS: non-shrinking «green-building» slurry for reinforcing injections in old masonry

**aziChem**



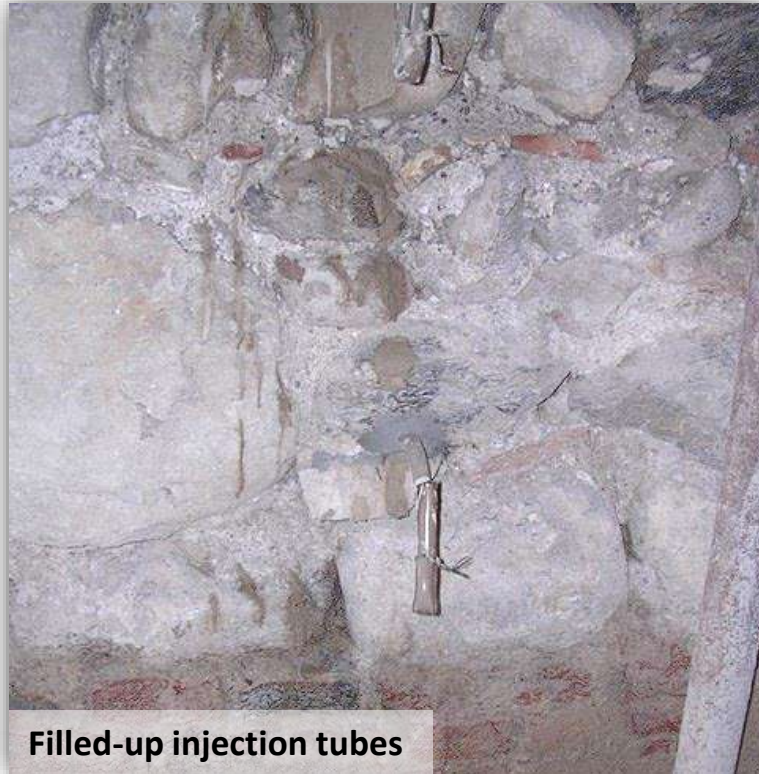
Marking of the injection spots



Injection of SANAFLUENS

# SANAFLUENS: non-shrinking «green-building» slurry for reinforcing injections in old masonry

**aziChem**



Filled-up injection tubes

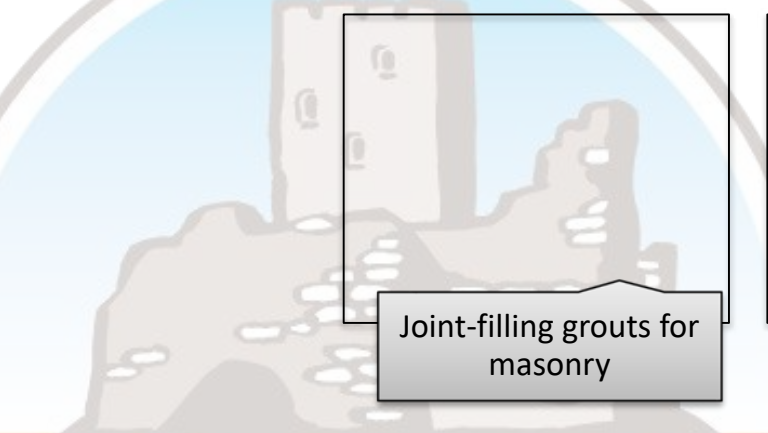


The old tower has been restored





# Product line: OPUS



Joint-filling grouts for masonry

Rising damp blockages with chemical barriers

Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads

Anchoring mortars for frameworks

Seico Compositi®


# GROUT MICROJ: pourable cement-based micro-grout, non shrinking, fiber reinforced

**aziChem**<sup>®</sup>

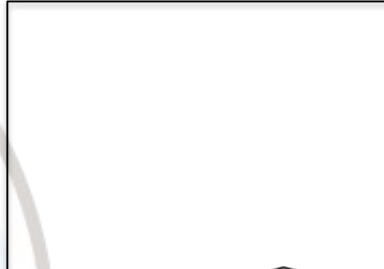




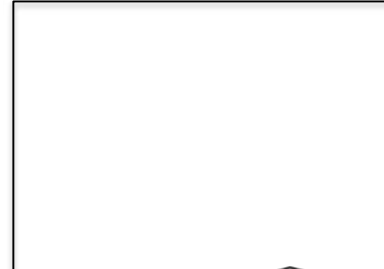
# Product line: OPUS




Joint-filling grouts for masonry




Rising damp blockages with chemical barriers




Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads



Anchoring mortars for frameworks



Seico Compositi®

# SANAFIRM: quickly setting mortar, lime-based, for frameworks fastening


**aziChem**<sup>®</sup>



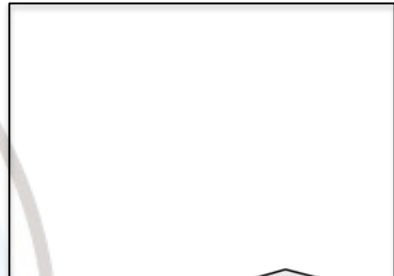
**Window framework  
positioning with SANAFIRM**




# Product line: OPUS




Joint-filling grouts for masonry



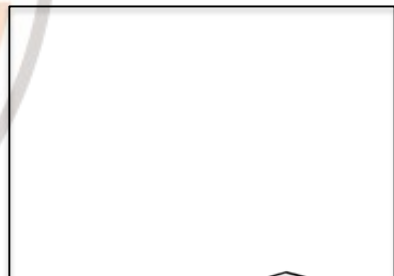
Rising damp blockages with chemical barriers



Injection slurries for masonry reinforcing



Micro-grouts for cobblestone roads



Anchoring mortars for frameworks



Seico Compositi®

# Seico Compositi®: structural reinforcements with carbon-fibers

**aziChem**



**Pillar wrapping**



**Suspended slabs structural reinforcement**



**Curved rooftops adjustment**



Product line: SANAGEB

**aziChem**<sup>®</sup>

**Natural products and technologies for the  
green-building, the bio-architecture, eco-  
restorations and energy saving**

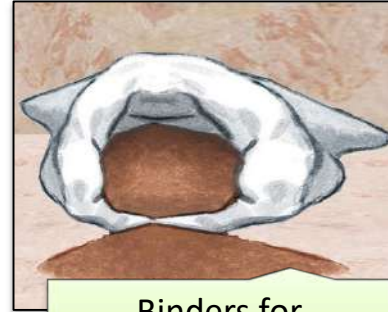


## Product line: SANAGEB

**aziChem**



Stabilsana®, natural paveways



Binders for granulated cork



Green-building bonding for tiles



Ecologic treatments for molds

Sanageb





## Product line: SANAGEB

**aziChem**<sup>®</sup>



Stabilsana<sup>®</sup>, natural paveways

Binders for granulated cork

Green-building bonding for tiles

Ecologic treatments for molds

# STABILSANA: natural additive for the construction of roads made of compacted soil

**aziChem**<sup>®</sup>



... laying down the soil with an asphalt paver



... with only on-site soil, using a mobile soil grinder

# STABILSANA: natural additive for the construction of roads made of compacted soil

**aziChem**<sup>®</sup>

How it looks

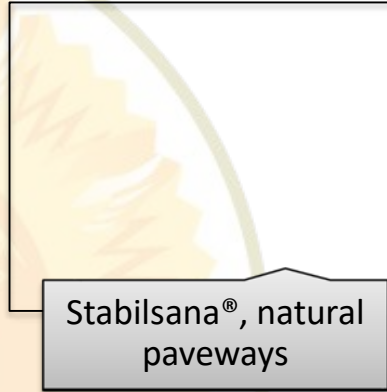


Detail of the final surface

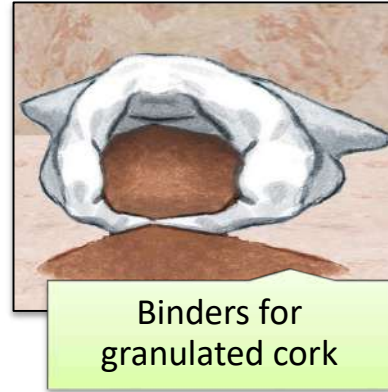


## Product line: SANAGEB

**aziChem**



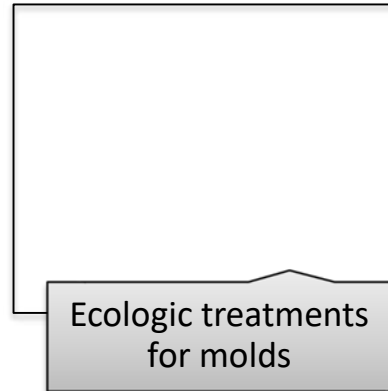
Stabilsana®, natural paveways



Binders for granulated cork



Green-building bonding for tiles



Ecologic treatments for molds

# SANAGLASS: special binder for cork-made natural insulating screeds

**aziChem**<sup>®</sup>

**Dosing SANAGLAS (about 80-100 kg for every m<sup>3</sup> of cork)**



**Pumping of the mixture of cork and SANAGLASS**


**Leveling and smoothing the cork-made screed**






# Product line: SANAGEB

**aziChem**<sup>®</sup>



Stabilsana<sup>®</sup>, natural paveways

Binders for granulated cork

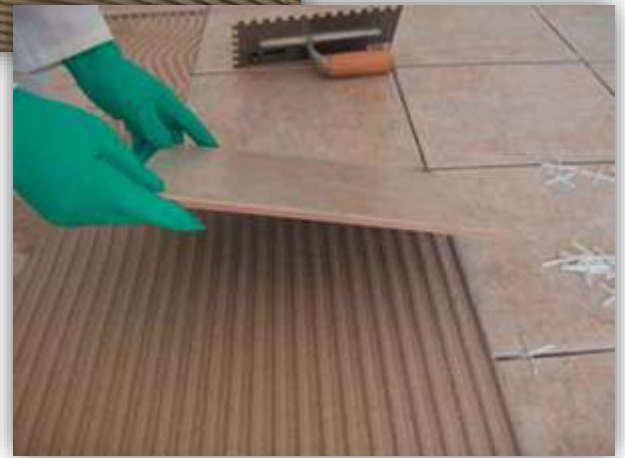


Green-building bonding for tiles

Ecologic treatments for molds

# SANAKOLL: green-building lime-based adhesive for tiles and modular panels

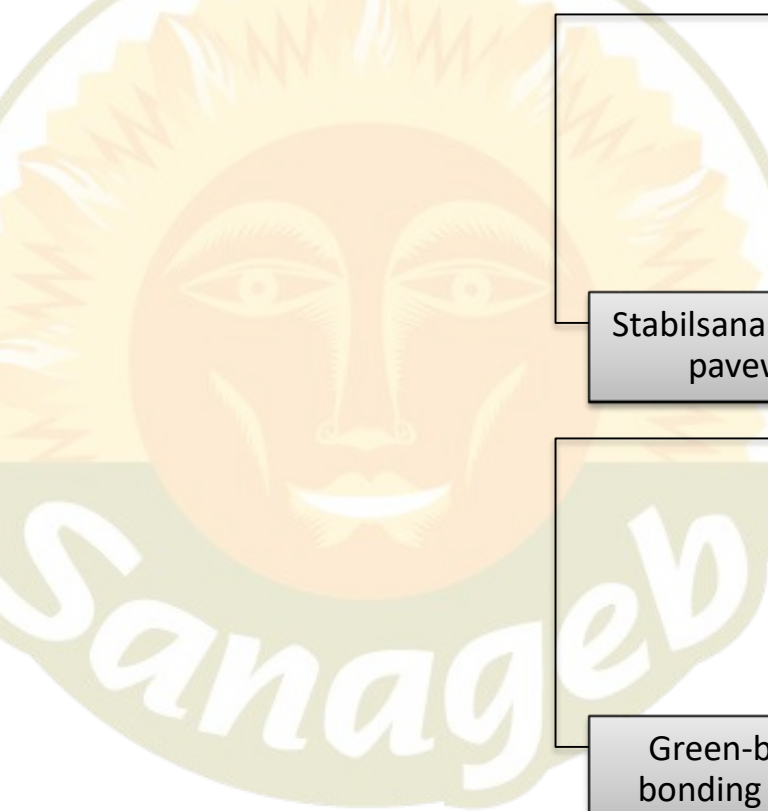
**aziChem**





# Product line: SANAGEB


**aziChem**<sup>®</sup>



Stabilsana<sup>®</sup>, natural paveways

Binders for granulated cork

Green-building bonding for tiles

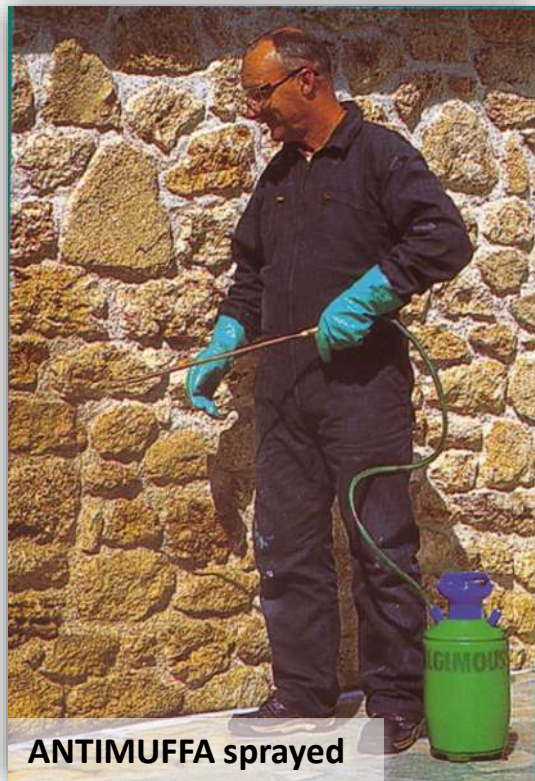


Ecologic treatments for molds



# ANTIMUFFA: ecologic treatments for molds

**aziChem**<sup>®</sup>



**ANTIMUFFA** sprayed



**Spontaneous removal of the molds after few days**



**Thank you**