

Progetto Zero

LITOKOL®
HI-PERFORMANCE BUILDING PRODUCTS

50
YEARS
1968-2018

ZHERORISK®

PIATTAFORMA TECNOLOGICA LITOKOL

con il contributo di

LaRCo  **icos**
Laboratorio Ricerca Costruzioni


DEMOCENTER

 **UNIMORE**
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA


ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
CENTRO INTERDIPARTIMENTALE
DI RICERCA INDUSTRIALE EDILIZIA E COSTRUZIONI

Progetto cofinanziato dal Fondo europeo di sviluppo regionale

 **POR FESR
EMILIA-ROMAGNA
2014/2020**


UNIONE EUROPEA
Fondo europeo di sviluppo regionale



 **Regione Emilia-Romagna**

Description of Project Zero

(Zero Environmental Risks in Our buildings)

Development of a completely new generation of products

- ✓ Products for decorating and finishing floors and walls
- ✓ Mortars environmentally friendly with increased seismic performance

Zero Environmental Risk and Zero Seismic Risk



Structural mortars for buildings with ZERO seismic risk



Formulated with the use of renewable raw materials



Low carbon footprint, with a low environmental impact



Formulated with the use of recycled materials

Objective

A Series of Technology Platforms
Consisting of Innovative Base Materials.



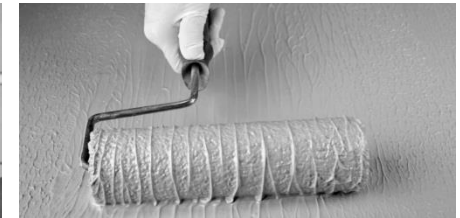
✓ Cement Platform



✓ Powder Resin Platform



✓ High Solid Resin Platform



✓ Liquid water-based Resin Platform

Ensure the generation of products made with them will...

- ✓ Impact all phases of a buildings lifecycle
- ✓ Provide new environmental improvements to existing products
- ✓ Develop completely new products, anti-seismic structural mortars with high ductility

Results

The Project resulted in the formulation of
Three Families of innovative products “All with Zero Risks”

✓ **Mortars and Grouts**

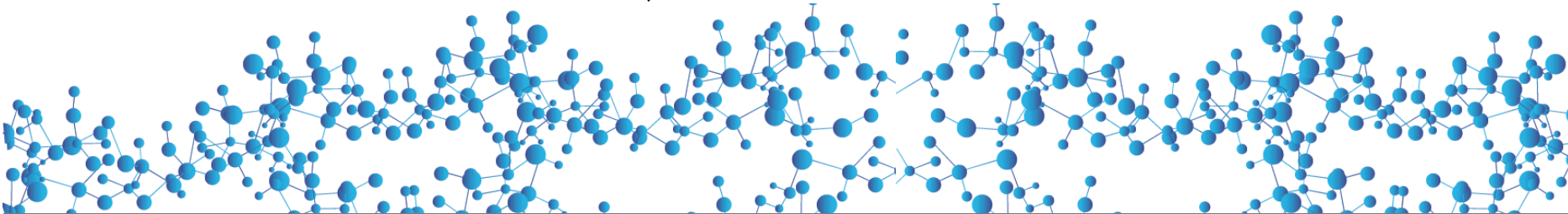
(adhesives and primers for laying ceramic materials, natural stones and others)

✓ **Decorative**

(decorative floor and wall)

✓ **Structural Mortars for Anti-Seismic Walls**

All innovations will be environmentally friendly, safe for the environment and human health, VOC-free and ADR-free.





Safe for applicators
health



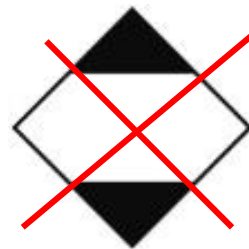
Safe for
Transport



Safe for the
environment and
human health



Non-corrosive
Not dangerous
for the environment



ADR free



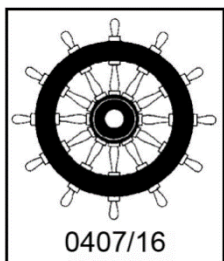
VOC Free

This change will affect most of the products currently made by Litokol

Other products will open up completely new markets

- ✓ **Structural mortars for buildings with Zero Seismic Risk**
- ✓ **Mortars and grouts with IMO certification for shipbuilding**





Certification IMO

New product family with certificates for use in the naval sector
(fire resistant and with self-extinguishing properties)

Currently undergoing certification:

- ✓ Epoxy mortar and grout **X90FR**
- ✓ Epoxy adhesive **Litoelastic FR.**

Flame Testing

