

## HYGROSMART® SYSTEM

High performance for  
demanding applications



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CERTIFIED QUALITY, ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND  
SAFETY MANAGEMENT SYSTEMS: ISO 9001/14001 & ISO 45001

**PRIOR APPLICATION**  
PLEASE CONSULT PRODUCT'S TECHNICAL DATA SHEET (TDS)  
AND SAFETY DATA SHEET (SDS)

# HYGRO SMART® SYSTEM

**Advanced Cementitious  
Mortar Technologies  
for the Construction Industry**





# HYGROSMART® SYSTEM



ALCHIMICA's advanced range of cementitious repair and waterproofing mortars offers complete reliable solutions for the reinforcement and concrete repair, masonry and coatings repair and for waterproofing applications. HYGROSMART® products are CE certified and designed to provide maximum efficiency in the repair and sealing of old or new structures, in areas such as basements, foundations, wet areas, balconies and facades achieving their successful upgrade and longevity.

## Reinforcement and repair of concrete

### HYGROSMART®-BUILDING-F

High-tech, single component CLASS R3 fiber reinforced repair mortar.

#### APPLICATIONS

- Repairing imperfections in concrete, coatings and masonry.
- Suitable for forming gutters on roofs.
- Concrete reinforcement repairs, exposed to oxidizing or marine environments.

#### CHARACTERISTICS

- Easy application with long open time.
- Excellent adhesion to building materials, with high strength and does not crack.
- Can be overpainted in a few hours after application.

CE certification according to EN 1504-03



### HYGROSMART®-BUILDING-45 THIXO

High-tech, thixotropic, single component CLASS R4 fiber reinforced repair mortar.

#### APPLICATIONS

- Repairing imperfections of concrete, coatings and masonry.
- Suitable for shaping gutters on roofs.
- Concrete reinforcement repairs, exposed to oxidizing or marine environments.

#### CHARACTERISTICS

- Easy application with long open time.
- Excellent adhesion to building materials, with high strength and does not crack.
- Can be overpainted in a few hours after application.

CE certification according to EN 1504-03



### HYGROSMART®-MAK-FLOW

A non-shrinking, high-strength, CLASS R4 single component flowable mortar for structural repairs and anchoring.

#### APPLICATIONS

- Repair of mortar in damaged concrete, anchoring machines, gas, steam or wind turbines. For indoor and outdoor use.

#### CHARACTERISTICS

- High resistance to bending and crushing.
- Swellable.
- High flow for full compression.



### HYGROSMART®-SLU-RAPID

A non-shrinking self-leveling fast-setting cementitious mortar.

#### APPLICATIONS

- Filling and leveling of cavities and floors.
- Suitable for floor preparation for laying tiles / parquet / carpets.

#### CHARACTERISTICS

- Excellent workability and rheology.
- Gives a perfectly smooth surface.
- High adhesion to cement.
- Easy and fast application.
- Zero shrinkage.



## Cementitious sealing mortars

### HYGROSMART®-IMPER-C

Single component fiber-reinforced waterproofing mortar based on cement.

#### APPLICATIONS

- Waterproofing and protection of concrete, concrete structural elements, basement walls, tanks, planters.

#### CHARACTERISTICS

- Easy to apply with a long service life.
- Strong adhesion, waterproof, high resistance to weather conditions.
- High resistance to positive & negative pressure.
- Very good mechanical properties.

CE certification according to EN 1504-02



### HYGROSMART®-IMPER-C-2K-FLEX

Two-component waterproofing mortar based on cement, plus special aggregates, and inorganic & synthetic polymers in water.

#### APPLICATIONS

- Waterproofing and protection: Wet areas, terraces, balconies and swimming pools (under tiles), tanks, prefabricated elements, basement elements, retaining walls.

#### CHARACTERISTICS

- Easy to apply with a long service life.
- Strong adhesion, waterproof, high resistance to weathering.
- High resistance to positive & negative pressure.
- Very good mechanical properties.

CE certification according to EN 1504-02



### HYGROSMART®-IMPER-C-1K-ELASTIC

Elastic and flexible single component cementitious mortar, for under tiles waterproofing.

#### APPLICATIONS

- Waterproofing and protection: Concrete, baths, terraces, balconies and swimming pools (under tiles), tanks, prefabricated walls, basement walls, retaining walls.

#### CHARACTERISTICS

- Flexible with excellent workability.
- Single component, just add water.
- Strong adhesion to various substrates.
- Easily covers any cracks.

Certification according to EN 14891

