



**BUILDING SPECIALTIES**



**ACHITEX MINERVA**





# SPECIALTIES FOR BUILDING SECTOR

Achitex Minerva Group produces and sells specialties designed to the protection and the renewal of building materials.

Products can be divided according to their application:

- ✓ WATER REPELLENTS
- ✓ WATER- AND OIL- REPELLENTS
- ✓ CEMENTS ADDITIVES
- ✓ PAINTS ADDITIVES
- ✓ CHEMICAL BARRIER
- ✓ PHOTOCATALYTIC PRODUCTS
- ✓ ANTI-GRAFFITI
- ✓ ROOF AND FLOOR COATING

Whether used as standalone additives or in combination with one another, these products offer a powerful solution for the protection and the renewal of building materials, improving the performance and the values of building materials, guaranteeing a longer lifespan.

R&D department is constantly engaged in the search for innovative and performing formulations, able to meet the needs of the market, while still safeguarding the environment and common goods for future generations.

The chemical experience, combined with a careful selection of raw materials and an accurate analysis of each production phase, allows Achitex Minerva Group to guarantee high quality products, reproducibility and rapid feedback to customer requests.

## WATER REPELLENTS

Water repellent solutions for absorbent building materials. Once applied to building surfaces, they create a water-repellent barrier, which doesn't alter their permeability to water vapour or their superficial chromatic appearance.

- ✓ Increase water repellency and hydrophobicity
- ✓ Good water vapour permeability
- ✓ Reduce primary and secondary efflorescence
- ✓ Increase the resistance to frost / thaw cycle
- ✓ Increase durability of treated building materials

### Typical applications

	Bricks	Tuff bricks	Tiles	Cements substrates	Cotto substrates	All building absorbent material
	<b>ACHIBUILD CB ECO</b>		<b>ACHIBUILD WE SERIES</b>		<b>ACHIBUILD S 92</b>	
<b>Technical information</b>	Self-dispersion of organic-modified silane and siloxane without surfactants		Water emulsion of Alkyl alcoxy silane		Solvent concentrated siloxane	
<b>Physical proprieties</b>	Liquid		Liquid		Liquid	
<b>Applications</b>	All building materials		Materials at high porosity		Dense materials at all dimension porosity	
<b>Remarks</b>	Low molecular weight which allows excellent deep penetration. High alkali stability		High water repellent proprieties, that give a final beading effect		Can be used as chemical barrier for the elimination of rising damp. It gives a high beading effect	







## WATER - AND OIL - REPELLENTS

Water and oil repellent solutions for absorbent building materials.

Once applied to building surfaces, they create a water- and oil repellent barrier, which doesn't alter their permeability to water vapour or their superficial chromatic appearance.

- ✓ Increase water and oil repellency
- ✓ High resistance to stains
- ✓ Good water vapour permeability
- ✓ Reduce primary and secondary efflorescence
- ✓ Increase the resistance to frost / thaw cycle
- ✓ Increase durability of treated building materials
- ✓ Durability in time

### Typical applications

Bricks	Tuff bricks	Tiles	Cements substrates	Cotto substrates	All building absorbent material
ACHIBUILD FCP		ACHIBUILD FW 22		ACHIBUILD S84	
Technical information	Based on fluoro-silane compounds		Aqueous dispersion of an organic reactive polymer		Solvent and C6 fluoro-polymer based
Physical proprieties	Liquid		Liquid		Liquid
Applications	All building materials		All building materials		Inorganic substrates
Remarks	High beading effect High stability to alkali Zero VOC content Environment-friendly		FDA 21 approved		

## CHEMICAL BARRIER

A definitive solution for the elimination of rising damp from masonry: a continuous, water-repellent chemical barrier, which prevents moisture and the salts it contains from rising through the masonry, thus also removing the problem of salt efflorescence.

- ✓ Water based product
- ✓ Elimination of rising damp from masonry
- ✓ Prevent moisture and salts efflorescence
- ✓ Increase the resistance to frost / thaw cycle
- ✓ Increase durability of treated building materials
- ✓ Definitive solution
- ✓ Easily applicable

### Typical applications

Bricks	Tuff bricks	Tiles	Cements substrates	Cotto substrates	All building absorbent material
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#### ACHIBUILD CREAM 80

<b>Technical information</b>	Impregnating agent based on alkyl silane	<b>ACHIBUILD WE SERIES</b>	Water emulsion of Alkyl alcoxy silane
<b>Physical proprieties</b>	Cream		Liquid
<b>Applications</b>	All building materials		All building materials
<b>Remarks</b>	80% of active content		Can be used as chemical barrier for the elimination of rising damp from masonry, and create a water repellent surface with beading effect

The barrier is created at the base of the masonry structure, by drilling holes slanting downwards and then injecting the most suitable product into them with a cartridge gun or low pressure pump.

Creates a water-proof barrier inside the structure, varying in thickness depending on the absorption capacity of the wall's construction materials.





## CEMENTS ADDITIVES

Water-repellent additive in powder suitable for cementitious mixtures preparation.

The product has to be mixed with the cementitious powders before adding water. The development of the hydrophobic effect will be shown after the total mortar drying.

- ✓ Increase water repellency and hydrophobicity
- ✓ Increase the resistance to frost / thaw cycle
- ✓ Increase water resistance and durability of cement-based products

### Typical applications

#### Cements mix

	ACHIBUILD PFB	ACHIBUILD IPS	ACHIBUILD PS 200
Technical information	Mix of silica based on silane and siloxane	Mix of silica and PVA based on silane	Mix of silica and PVA based on silane
Physical proprieties	Powder	Powder	Powder
Applications	In formulation for concrete mixing and plasters	In formulation for create plasters, renders coat and mortar adhesive	In formulation for create plaster and mortar for grouting
Remarks	It doesn't modify the final viscosity of the mixture	It increases miscibility of the mixture and its workability	High-concentration. It increases miscibility of the mixture and its workability

## PAINTS ADDITIVIES

Watery dispersions, which can be used as binder in paints and plasters formulations for building sector.

The product provides a very nice beading effect, protecting the support from the aggression of atmospheric agents and extending its life-span.

Being odourless, it can be used both indoors and outdoors.

- ✓ Low water absorption
- ✓ Good resistance to light
- ✓ Good water vapour and co2 permeability
- ✓ Very nice beading effect
- ✓ Odourless
- ✓ Increase the resistance the aggression of atmospheric agents
- ✓ Extend life-span of the supports

### Typical applications

Paints	Plasters
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	ACHIBUILD RS 42	ACHIBUILD WE SERIES
Technical information	Aqueous dispersion of poly-siloxane resins	Water emulsion of Alkyl alcoxy silane
Physical proprieties	Liquid	Liquid
Applications	All building materials	All building materials
Remarks	Very nice beading effect	Very nice beading effect







## PHOTOCATALYTIC PRODUCTS

High photocatalytic effect such to make the treated surfaces self-cleaning. Their special formulation allows, with the light, to increase the speed of the oxidizing process, leading to a decomposition of the polluting organic substances that come into contact with the surface. They protect the support from the aggression of atmospheric agents and polluting organic substances, extending support life-span.

- ✓ Self-cleaning effect
- ✓ Increase decomposition of the polluting organic substances
- ✓ Protect the support from the aggression of atmospheric agents
- ✓ Extend support life-span

### Typical applications

All building  
absorbent material

	ACHIBUILD TPC	ACHIBUILD TPH B
Technical information	Titanium Dioxide dispersion with modified alkyl alkoxy silane	Watery colloidal dispersion of photocatalytic titanium dioxide
Physical proprieties	Liquid	Liquid
Applications	External surfaces	External surfaces
Remarks	Penetrates in depth into the material and, by polymerization, creates a lasting water-repellent barrier during the time	Can be used as it is or diluted in water

## ANTI-GRAFFITI

Series designed to protect or clean the surfaces of buildings from vandal graffiti.

- ✓ Against vandal graffiti
- ✓ Easily applicable
- ✓ Invisible barrier

### Typical applications

All substrates

	ACHIBUILD GR 14	ACHIBUILD GR P15	ACHIBUILD GR CLEANER
<b>Technical information</b>	Sacrificial anti-graffiti based on modified organic polymers in aqueous emulsion	Semi-permanent anti-graffiti based on modified organic polymers in aqueous emulsion	Gelatinous detergent for surfaces cleaning, not previously protected.
<b>Physical proprieties</b>	Aqueous emulsion	Aqueous emulsion	Gelatinous
<b>Applications</b>	Suitable for all surfaces	Suitable for all surfaces	Suitable for all surfaces
<b>Remarks</b>	The product fills the pores of the surface without blocking its breathability, but creating a generally invisible barrier that avoids the deep penetration of graffiti into the materials	The product fills the pores of the surface without blocking its breathability, but creating a generally invisible barrier that avoids the deep penetration of graffiti into the materials	The product should be applied by brush on the damaged surfaces and left to act for 10-15 minutes. <b>Don't use it on surfaces decorated with paints</b>





## ROOF AND FLOOR COATING

Product designed to protect and renew roofs and floors. These products, penetrating the substrate by capillarity, gives the treated materials water-repellent and anti-scratch properties, making them less permeable and more resistant to external attacks.

- ✓ Water-repellent and anti-scratch properties
- ✓ Increase resistance to external attacks
- ✓ Roofs and floors renovation at low costs
- ✓ Easily applicable

### Typical applications

All building absorbent material	Clay tiles	Concrete tiles
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#### ACHIBUILD CT SERIES

#### ACHIFLOOR PR 10

Technical information	Water-repellent, acrylic-based protective paints	Water - repellent, transparent dirty protection
Physical proprieties	Liquid	Liquid
Applications	On tiles and floors	On floors
Remarks	Final semi-matt effect Anti-scratch properties Alkali resistants	Final glossy effect Anti-scratch properties Alkali resistants



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