

BUILDING SPECIALTIES







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:

- *Y* **WATER REPELLENTS**
- WATER- AND OIL- REPELLENTS
- CEMENTS ADDITIVES
- PAINTS ADDITIVES
- 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.



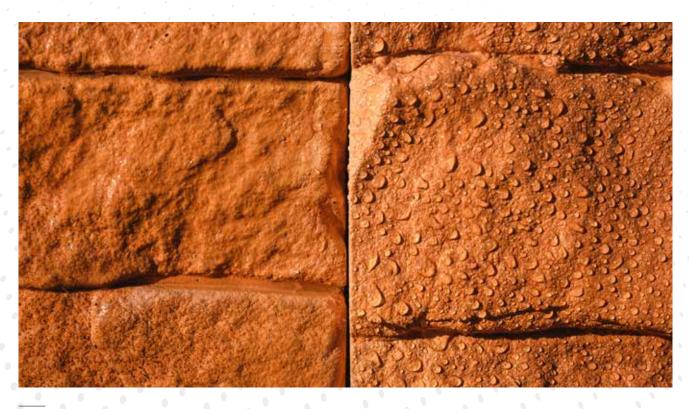
WATER REPELLENTS

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
	ACHIBUILD	CB ECO	ACHIBUILD WE SER	IES	ACH	IBUILD S 92
Technical information	Self-dispersion of o silane and silox surfacta	ane without	Water emulsion of Alky alcoxy silane	t	Solvent co	ncentrated siloxane
Physical proprieties	Liqui	d	Liquid			Liquid
Applications	All building r	materials	Materials at high porosi	ty	Dense mate	rials at all dimension porosity
Remarks	Low molecular weig excellent deep per alkali sta	netration. High	High water repellent proprie that give a final beading e	,	the eliminat	as chemical barrier for tion of rising damp. It ligh 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
- Reduce primary and secondary efflorescence
- Increase the resistance to frost / thaw cycle
- ✓ Increase durability of treated building materials
- Ourability in time

Typical applications

Bricks	Tuff bricks	Tiles	Cements substrates	Cotto sub	strates	All building absorbent material
	ACHIBUII	LD FCP	ACHIBUILD FW 22	2	ACH	IBUILD S84
Technical information	Based on fluoro-sil	ane compounds	Aqueous dispersion of an or reactive polymer	ganic So	lvent and C	6 fluoro-polymer based
Physical proprieties	Liqui	d	Liquid		Liquid	
Applications	All building r	materials	All building materials		Inorga	anic substrates
Remarks	High beadir High stability Zero VOC o Environmen	y to alkali content	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.

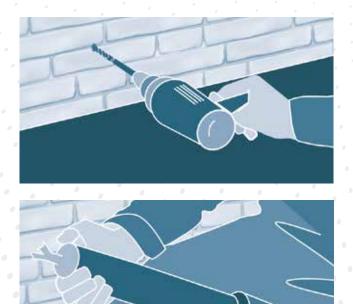
- Water based product
- Elimination of rising damp from masonry
- Prevent moisture and salts efflorescence
- ✓ Increase the resistance to frost / thaw cycle
- Increase durability of treated building materials
- Definitive solution

Typical applications

Bricks	Tuff bricks	Tiles	Cements sub	strates	Cotto substrates	All building absorbent material	
	ACHI	BUILD CREAM 80	•		ACHIBUILD WE	SERIES	
Technical information	Impregnating agent based on alkyl silane			Water emulsion of Alkyl alcoxy silane			
Physical proprieties		Cream			Liquid		
Applications	All	All building materials			All building mat	erials	
Remarks	80	80% of active content		Can be used as chemical barrier for the eliminatior rising damp from masonry, and create a water repel 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 ADDITIVIES

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 cementbased 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
- 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



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





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 antiscratch properties, making them less permeable and more resistant to external attacks.

Clay tiles

- 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

Remarks

	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			

Concrete tiles

Final semi-matt effect

Anti-scratch properties

Alkali resistants

Final glossy effect Anti-scratch properties Alkali resistants



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