



PRODUCT CATALOG

avalon.bg

Avalon[®]

BUILDING INDUSTRY



Mission Avalon

Avalon is a project to create high quality products using the most advanced technologies to be realized on the European market. It was founded in 2008.

The following year the project was joined by the Italian technologist Giorgio Chinca – a specialist in cement modification, author of many innovations in construction products. In 2017, the company invested in an innovative and 100% robotic production line with maximum quality control and capacity of 260 000 tons/year.

In 2021, **Avalon** invite a second Italian technologist, Enrico Gambarelli. Thus, the company becomes a place where people from different countries meet with different cultures working together for the main goal – creating high-tech products of consistently high quality.

The effect:

- **Speciale** – high tech, innovative adhesives for tiles;
- **AQUA BARRIERA** – Hydro insulation with Nano particles;
- **HERCULES** – Self-leveling floor for inside and outside;
- **AEROSTAR** – Breathable, light weight products for healthy living;
- **MAGMA QUARTZ** – High compression strength products – R4, for structural repair of concrete;

We at **Avalon** are proud to say that everything we do is organized from the company's head office in Bulgaria with its own team of outstanding specialists – from product development, through the supply of raw materials to production in compliance with the increased internal norms of our technologists. All this happens in one place at the same time. This is unique in the construction industry and gives us a significant advantage.

The main tasks before us are:

- All control is in our hands – this is how we do things differently;
- Attention to detail – our expert technologist are looking for and experimenting with the best materials to exceed the expectations of our customers;
- Certification according to Western European quality standards – with the help of our technologists we manage to certify each of our products in European laboratories, which takes about a year from the idea until all tests are completed.

All this is achieved with the hard work of each of the team, 13 years of investment in high-tech equipment, overcoming every obstacle along the way.

Using the most advanced technologies and the latest chemical additives known to science, we have the opportunity to offer an ultra-high level of product characteristics. Together with our unique production control, we can easily cross the boundaries of the physical capabilities of the product for the most extreme use.

We are incredibly happy to achieve all this...

Georgi Bonchev







HERCULES

SELF-LEVELING PRODUCTS

HERCULES F10

ULTRA-FAST HARDENING SELF-LEVELING SMOOTHING FOR THICKNESSES FROM 1 TO 10 mm. CT-C40-F5

Description:

HERCULES F10 is a single-component cement-based premix, usable internal and external for leveling and smoothing new or existing substrates, in thicknesses from 1 to 10 mm. Mixed with water only, **HERCULES F10** develops excellent fluidity and self-leveling capacity and after hardening it has excellent adhesion to the support and a surface with excellent mechanical characteristics such as resistance to compression, bending, imprint and abrasion, which allow it to be used even in places subject to heavy traffic, even with wheelchairs. **HERCULES F10** can also be used on heated substrates and is suitable for receiving any type of coating: ceramics, parquet, and resilient products in general.

Fields of application:

- Smoothing of traditional cement screeds and concrete slabs.
- Realization of heating screeds in residential environments (minimum thickness 10 mm beyond the upper surface of the panel)
- Smoothing of heated screeds
- Smoothing old existing ceramic, terrazzo or natural stone floors.
- Smoothing of anhydrite screeds.

TECHNICAL DATA

Appearance:	Gray powder
Bulk density (powder):	about 1300 kg / m ³
Dry solids content:	100%
Mixing ratio:	about 21% (about 4.8-5.2 liters per 25kg)
Density of the mix:	about 1950 kg / m ³
Applicable thickness:	from 1 to 10 mm
Workability time/Pot life:	45-50 minutes *
Setting start time:	55-85 minutes *
Walkability time/ set to light foot traffic:	8 - 12 hours *
Waiting time before subsequent bonding:	parquet 4 days, ceramics 24 hours
* depending on the temperatures and thicknesses made	
Application temperature range:	from +5 to +35 °C

FINAL PERFORMANCE

Compressive strength (after 24 hours):	≥ 16N / mm ² (EN 13892-2)
Compressive strength (after 28 days):	≥ 40N / mm ² (EN 13892-2)
Flexural strength (after 24 hours):	≥ 3 N / mm ² (EN 13892-2)
Flexural strength (after 28 days):	≥ 5 N / mm ² (EN 13892-2)
Reaction to fire:	NPD

*Data expressed at (20 ± 2) °C and (65 ± 5)% relative humidity. Lower temperatures lengthen the maturation and hardening times.



HERCULES F40

ULTRA-FAST HARDENING SELF-LEVELING SMOOTHING FOR THICKNESSES FROM 3 TO 40 mm - CT-C35-F5

Description:

HERCULES F40 is a single-component cementitious premix with ultra-fast hydration and hardening, usable indoors and outdoors for leveling and smoothing new or existing substrates, in thicknesses from 3 to 40 mm. Mixed with water only, **HERCULES F40** develops excellent fluidity and self-leveling capacity and after hardening it has excellent adhesion to the support and a surface with excellent mechanical characteristics such as resistance to compression, bending, imprint and abrasion, which allow it to be used even in places subject to heavy traffic, even with wheelchairs. **HERCULES F40** can also be used on heated substrates and is suitable for receiving any type of coating: ceramics, parquet, and resilient products in general.

Fields of application:

- Smoothing traditional or quick-drying cementitious screeds and concrete slabs.
- Realization of heating screeds in residential environments (minimum thickness 10 mm beyond the upper surface of the panel)
- Smoothing of heated screeds
- Smoothing old existing ceramic, terrazzo or natural stone floors.
- Smoothing of anhydrite screeds.

TECHNICAL DATA

Appearance:	Gray powder
Bulk density (powder):	about 1300 kg / m ³
Dry solids content:	100%
Mixing ratio:	about 20% (about 4.8-5.2 liters per 25kg bag)
Density of the mix:	about 1950 kg / m ³
Applicable thickness:	from 3 to 40 mm
Workability time/Pot life:	25-30 minutes *
Setting start time:	45-50 minutes *
Walkability time/ set to light foot traffic:	3 - 4 hours *
Waiting time before subsequent bonding:	48 hours for parquet, 24 hours for ceramics
* depending on the temperatures and thicknesses made	
Operating temperature:	from +5 to +35 °C

FINAL PERFORMANCE

Compressive strength (after 24 hours):	≥ 16N / mm ² (EN 13892-2)
Compressive strength (after 28 days):	≥ 40N / mm ² (EN 13892-2)
Flexural strength (after 24 hours):	≥ 3 N / mm ² (EN 13892-2)
Flexural strength (after 28 days):	≥ 5 N / mm ² (EN 13892-2)
Reaction to fire:	NPD

*Data expressed at (20 ± 2) °C and (65 ± 5)% relative humidity. Lower temperatures lengthen the maturation and hardening times.





AQUA BARRIERA

WATERPROOFING FOR BATHROOMS, TERRACES, SWIMMING POOLS

AQUA BARRIERA NANO SMART

TWO COMPONENT CEMENT BASED MORTAR, FLEXIBLE DOWN TO -20 °C, WITH CRACK BRIDGING CAPACITY OVER 2 MM, FOR WATERPROOFING BALCONIES, TERRACES, BATHROOMS AND SWIMMING POOLS.

COMPLIES WITH EN 14891

AQUA BARRIERA NANO SMART is used for waterproofing and protection of concrete structures, renders and cementitious screeds.

Some application examples:

- Waterproofing of concrete basins used for containing water.
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. before laying ceramic tile finishes.
- Flexible smoothing layer for light-sectioned concrete structures, including those subjected to minor deformation when under load (e.g. pre-cast panels).
- Protection of renders or concrete with cracks caused by shrinkage, against the infiltration of water and aggressive atmospheric elements.
- Protection, against the penetration of carbon dioxide, of concrete pillars beams and road and railway viaducts repaired with products from the Avalon range, and structures with an insufficient layer of concrete covering on the reinforcement rods.
- Protection of concrete surfaces which may come into contact with seawater, de-icing salts, such as sodium or calcium chloride, and sulphates.

ADVANTAGES

- Remains flexible at very low temperatures (-20°C).
- CE-certified product in compliance with EN 14891.
- Resistant to UV rays.
- 2.5 mm of AQUA BARRIERA NANO SMART represents the equivalent of 30 mm of concrete against the aggressive action of chlorides (w/c ratio 0.45)
- May also be applied on existing coverings.
- Compatible with ceramic, mosaic and natural stone coverings.

AQUA BARRIERA ONE

OSMOTIC CEMENTITIOUS MORTAR SUITABLE FOR CONTACT WITH DRINKING WATER, FOR WATERPROOFING MASONRY AND CONCRETE STRUCTURES

Complies with EN 1504-2

WHERE TO USE

- Repairing underground masonries subject to water and moisture seepage in situations with negative pressure up to 1 atmosphere.
- Waterproofing basins, reservoirs, concrete or masonry tanks containing drinking water.
- Waterproofing concrete or masonry tanks containing sewage water.

Some application examples:

Waterproofing:

- drinking water reservoirs;
- interior and exterior cellar walls;
- damp areas;
- swimming-pools;
- lift-rooms;
- underground passages;
- foundation walls;
- irrigation channels;





Avalon SPECIALE

***SPECIAL LINE OF PRODUCTS
WITH EXCEPTIONAL PERFORMANCE***

MEGA FLEX S2

Two-component, high performance, highly deformable, cementitious adhesive with no vertical slip and extended open time for ceramic and porcelain tiles and stone material over critical surfaces.

C2TE S2
Complies with EN 12004 / EN 12002

MEGA FLEX S2 is a highly deformable (S2), improved (2), cementitious (C) adhesive, slip-resistant (T) and with extended open time (E), classified as C2TE S2.

Bonding to internal and external walls and floors of all types and sizes of ceramic tiles (single-fired, double-fired, porcelain, clinker, terracotta, etc.), natural stone (marble, granite, etc.) and artificial materials which are slightly sensitive to humidity which require the use of a S2 adhesive.

Some application examples:

- Laying ceramic and stone floor coverings which are subject to intense traffic.
- Laying tiles on deformable substrates: marine plywood, wooden agglomerates (if sufficiently stable to water), old wooden floors, etc.
- Laying or repair of tiled finishes in places such as swimming pools, refrigeration units, industrial plants (breweries, wine cellars, dairies etc.).
- Laying even large-sized ceramic, porcelain and stone tiles on façades, balconies, terraces, and sun-roofs and patios which are subject to direct sunlight and thermal gradients.
- Laying tiles in areas subject to high mechanical stresses and vibration (railway underpasses, underground railway platforms, etc.).
- Laying tiles on concrete substrates and pre-cast walls.
- Laying large-format tiles on heated screeds or on top of existing floor coverings in ceramic, terrazzo, marble, etc.
- Laying tiles on surfaces waterproofed with **AQUA BARRIERA**.



AERO FLEX

One-component, high-performance, flexible S1, lightweight cementitious adhesive C2, with no vertical slip T, extended open time E and extremely high yield. Easy to apply by trowel with excellent wetting properties, very low emission of volatile organic compounds for ceramic tiles, stone and large size tiles.

C2TE S1

The special “**AERO Technology**” used to manufacture **AERO FLEX S1** gives it a low density, a characteristic which offers two main advantages:

1. Bags of **AERO FLEX S1** have the same volume but weigh less (15 kg) than bags of conventional cementitious adhesive (25 kg). This makes for easier handling and savings in transport costs;
2. Higher yield: yield is approximately 60% higher compared with conventional Avalon cementitious adhesives.

AERO FLEX S1 mix has a low viscosity, which makes application quicker and easier. In spite of the above characteristics, the thixotropic nature of **AERO FLEX S1** means there is no vertical slip when fixing on walls, even with large-sized tiles. Its excellent back-buttering capacity and thixotropic consistency make **AERO FLEX S1** particularly suitable for laying thin porcelain tiles. In fact, the application of **AERO FLEX S1** using the double-buttering technique on flat substrates ensures that there are absolutely no voids in the adhesive on the back of the tiles, thus avoiding the risk of fracture when subject to load. Its excellent non-slip properties also make it particularly easy and safe to fix tiles on vertical surfaces.

When mixed with water, **AERO FLEX S1** forms a mortar with the following characteristics:

- Excellent capacity of absorbing deformation in the substrate;
- Excellent back-buttering property of the tiles;
- Bonds perfectly to all materials normally used in the building industry;
- Particularly long open and adjustment times, to make installation easier.



FLEX S1 TURBO

High-performance, deformable, rapid-setting and hydrating, non-slip cementitious adhesive with extended workability and very low emission of volatile organic compounds particularly recommended for stone, including thick, large formats. C2TE S1

WHERE TO USE

- Interior and exterior rapid bonding of every type and size (single and double fired tiles, porcelain tiles, klinker, terracotta, etc.).
- Interior and exterior bonding of natural stone, not particularly sensitive to moisture.
- Bonding of engineered stone in interior.
- Bonding thin porcelain tiles on floors, walls and external façades.
- Overlaying existing internal ceramic and stone flooring, if well bonded to the substrate, with ceramic and stone.
- Bonding thick, large tiles and slabs of ceramic and stone.
- Spot bonding of insulating material in interiors such as expanded polystyrene, rock and glass wool, Eraclit® (wood-cement boards), sound-deadening panels, cork, etc.

Some application examples

- Repairs in heavily trafficked areas and when surfaces need to be put into service rapidly, such as public premises, restaurants, motorway services, pedestrian passages, supermarkets, showrooms.
- Rapid installation or repairs in swimming pools, industrial plants (breweries, wine cellars, dairies, etc.), refrigeration units.
- Rapid repair work in bathrooms, showers, kitchens, balconies, terraces.
- Installing non-absorbent flooring over existing flooring, where the setting time of other cement based adhesives would be too slow.
- Installing marble and other stone material, even light coloured stone.
- Installing tiles onto heated screeds.
- Installation of floor and wall coverings on substrates waterproofed with AQUA BARRIERA range.



SUPERFLEX S1

High performance deformable S1 cementitious C2 adhesive, with no vertical slip T and extended open time E for ceramic tiles and stone material. Especially suitable for the installation of large-size porcelain tiles and natural stone. C2TE S1

Complies with EN 12004 / EN 12002

WHERE TO USE:

- Interior and exterior bonding, from 3 up to 15 mm thick, of ceramic tiles of every type and size (single and double fired tiles, porcelain tiles, klinker, terracotta, etc.) on uneven substrates and renders, without having to level the flooring beforehand;
- Interior and exterior bonding of stone materials (provided that they are not sensitive to moisture);
- Spot bonding of insulating material in interiors such as expanded polystyrene, rock and glass wool, Eraclit® (wood-cement boards), sound-deadening panels, cork, etc;

Some application examples:

- Bonding ceramic tiles (double-fired, single-fired, porcelain tiles, klinker etc.) and stone materials (provided that they are not sensitive to moisture) on conventional substrates such as:
 - Cement based screeds and under floor heating installations;
 - Cement based renders or lime and cement-based mortar;
 - Gypsum board as long as firmly fixed.
- Ceramic and stone material tiles on existing flooring (ceramic, marble, etc.);
- Installation of floors subjected to heavy traffic;
- Installation of floor and wall coverings on substrates waterproofed with Aqua Barriera;
- Interior and exterior bonding of tiles or strips (porcelain tiles, klinker, single-fired, terracotta) with highly profiled ribs or lugs.



TRAFFIC

Semi-fluid deformable self-backbuttering cementitious adhesive, with extended open time for ceramic and porcelain tiles and stone material (even big size), subjected to heavy traffic.

C2E S1

Complies with EN 12004 / EN 12002

Mixed with water, **TRAFFIC** becomes a mortar with the following characteristics:

- Semi-fluid consistency and therefore easily workable;
- The adhesive transfer to the tile back is 100% ensured. **TRAFFIC** can be used in thicknesses from 3 to 20 mm without the formation of empty spaces. Ideal for external installations and heavy traffic areas;
- Perfect bonding to all materials normally used in building;
- Hardens without noticeable shrinkage becoming mechanically very strong;
- Resistant to water, weathering action and frost.

WHERE TO USE

Installing floors:

- Internal and external floor bonding of all types of ceramic tiles, including medium and large sizes, stone material (provided that not sensitive to moisture and not subjected to efflorescences), Tuscan terracotta and terrazzo tiles.



AVAGEL

Standard setting, multipurpose gel-adhesive, structural, flexible, thixo & fluid. For tiles and stone of all types and formats.

C2TE S1

Complies with EN 12004 / EN 12002

1. High adhesion and deformability
2. Extended open time and pot-life
3. Non slump and non slip

Areas of application Intended use:

Substrates:

- existing tiles;
- waterproofing products;
- heating systems;
- cement-based screeds;
- asphalt screeds;
- concrete substrates;
- plasterboard;
- fibro-cement slabs;
- gypsum and anhydrite;
- brick/blockwork;
- lime and cement-based plasters/renderers;
- thermal insulation panelling systems;
- insulating panels;
- impact noise insulation sheets;
- timber - metal - PVC;

Materials:

- porcelain tiles;
- laminated stoneware;
- low thickness slabs;
- ceramic tiles;
- large size;
- 300x150 cm slabs;
- marble;
- natural stone;
- recomposed materials;
- glass mosaics;
- glass tiles;
- thermal and acoustic insulation;
- terracotta;
- klinker;

Uses:

- adhesive and finishing;
- floors and walls;
- for internal and external use;
- overlaying;
- terraces and balconies;
- facades;
- swimming pools and fountains;
- saunas and spa;
- domestic;
- commercial;
- industrial;
- street furniture;



AVAPOOL

High performance white cementitious adhesive, with no vertical slip and extended open time and grout for joints up to 8 mm for glass, ceramic and marble mosaic

C2TE/CG2WA

Interior and exterior floor and wall bonding and grouting of normal or heavy weight mesh-backed or paper-faced glass, ceramic and marble mosaic.

Some application examples:

AVAPOOL:

- Bonding of ceramic, glass and marble mosaic on cementitious renders, from the top towards the bottom.
- Bonding mosaic on non planar substrates, without tiles slipping.
- Bonding mosaic on gypsum board panels.

AVAPOOL mixed with AVALATEX diluted 1:1 with water:

- Bonding and grouting mosaic in swimming pools on renders or on substrates waterproofed with AQUA BARRIERA.
- Internal bonding and grouting of mosaic on existing ceramic tiles.
- Bonding and grouting small format ceramic tiles on renders in swimming pools.





**IMPROVED CEMENT BASED
TILE ADHESIVES**



FLEX C2TE

CLASSIFICATION IN COMPLIANCE WITH EN 12004, FLEX is an improved (2), slip resistant (T) cementitious adhesive (C), with extended open time (E), classified as

WHERE TO USE

Interior and exterior bonding of ceramic tiles and mosaics on floors, walls and ceilings. Also suitable for spot bonding of insulating materials such as expanded polystyrene, rock and glass wool, Eraclit® (wood-cement panels), sound-deadening panels, etc.

Some application examples :

- Bonding ceramic tiles and mosaics on the following substrates:
- Conventional renders or cementitious mortar walls.
- Interior aerated concrete block walls.
- Gypsum or anhydrite after having first applied AVAGRUND
- Gypsum board.
- Underfloor heating installations.
- Cementitious screeds, as long as they are sufficiently cured and dry.
- Interior painted walls, as long as the paint is firmly anchored.
- Tile on tile of existing flooring with tiles up to 1 600 cm².
- Bonding small sized tiles in swimming pools and basins



PRIMERS AND ADDITIVES

AVAGRUND

Synthetic resin-based water-dispersion primer with very low volatile organic compound (VOC)



WHERE TO USE

- For treating gypsum surfaces prior to installing ceramic tiles.
- As an anchoring coat for gypsum-based sprayable plasters.
- To improve the adhesion of smoothing compounds on cementitious or anhydrite and gypsum-based surfaces.
- To provide uniform absorption in cementitious or gypsum surfaces.
- Some application examples
- Preparing cement-based surfaces prior to smoothing with self-levelling or thixotropic smoothing compounds.
- Between layers of smoothing compounds once the first coat is perfectly dry.
- On gypsum plasters prior to smoothing with cementitious products.
- On anhydrite surfaces prior to applying cement-based products.
- On cementitious renders prior to smoothing with gypsum-based products.
- On gypsum walls as a fixative for wallpaper adhesives.
- Before installing ceramic tiles with cementitious adhesives on:
 - gypsum plasters and sprayed gypsum;
 - pre-cast gypsum panels;
 - fibrous-gypsum panels;
 - anhydrite screeds.
- Treating gypsum walls, chipboard, cement fibre boards, foamed concrete, renders etc. prior to papering or painting.



AVALATEX

Latex additive to impart elasticity to cementitious adhesives

AVALATEX is a type of latex mixed with Avalon FLEX, AERO FLEX and AVAPOOL, undiluted or diluted 1 : 1 with water, in order to meet the requirements defined in EN 12004 for the following classifications:

PRODUCT	Classification according to EN 12004	DESCRIPTION
Avalon Flex + Avalatex	C2E S2	High-performance, highly deformable cementitious adhesive with extended open time
Avalon Flex + Avalatex /diluted 1:1 with water/	C2E S1	High-performance, deformable cementitious adhesive with extended open time
Aero Flex + Avalatex	C2E S2	High-performance, highly deformable cementitious adhesive with extended open time
Aero Flex + Avalatex /diluted 1:1 with water/	C2E S1	High-performance, deformable cementitious adhesive with extended open time
Avapool + Avalatex /diluted 1:1 with water/	C2E S1 CG2 WA	High-performance, deformable cementitious adhesive with extended open time



***PRODUCTS FOR
THERMO INSULATION SYSTEMS***

TERMO MINERAL

One component cementitious mortar for bonding and levelling thermal-insulating panels and thermal insulation systems, with particle size up to 0,7 mm

WHERE TO USE

- Bonding all types of thermal-insulating panels EPS, XPS, Stone wool (foam/extruded polystyrene, foam polystyrene, mineral fibres, cork, wood fibres, etc.) directly on render, masonry and concrete on walls and ceilings.
- Smoothing thermal-insulating panels with embedded fibreglass reinforcing mesh on internal and external walls (thermal insulation system).

Some application examples:

Bonding and smoothing internal and external heat-insulating panels and thermal insulation systems on:

- cementitious render or lime-mortar render;
- concrete;
- concrete blocks;
- brick blocks.

Also suitable for bonding and smoothing systems for:

- insulating inside faces of walls in rooms above ground;
- insulating inside faces of retaining walls in basements;
- insulating inside faces of loft ceilings;
- insulating external faces of ventilated façades;
- insulating external façade of buildings, without using dowels up to 15 meters of height;



TERMO MINERAL 1000

One component cementitious mortar for bonding and levelling thermal-insulating panels and thermal insulation systems, with particle size up to 1,2 mm

WHERE TO USE:

- Bonding all types of thermal-insulating panels EPS, XPS, Stone wool (foam/extruded polystyrene, foam polystyrene, mineral fibres, cork, wood fibres, etc.) directly on render, masonry and concrete on walls and ceilings.
- Smoothing thermal-insulating panels with embedded fibreglass reinforcing mesh on internal and external walls (thermal insulation system).

Some application examples:

Bonding and smoothing internal and external heat-insulating panels and thermal insulation systems on:

- cementitious render or lime-mortar render;
- concrete;
- concrete blocks;
- brick blocks.

Also suitable for bonding and smoothing systems for:

- insulating inside faces of walls in rooms above ground;
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- insulating external faces of ventilated façades;
- insulating external façade of buildings, without using dowels up to 15 meters of height;





AVAGROUT

CONCRETE REPAIR

AVAGROUT MAGMA QUARTZ R4

R4 /EN 1504 – 3/

Shrinkage compensated, fibre-reinforced high flow mortar for concrete repair

To repair structures where particular thicknesses and the state of deterioration require the use of high flow mortars.

Some application examples:

- Structural reinstatement of reinforced concrete beams and pillars.
- Restoring the lower flanges of pre-stressed concrete beams of viaducts.
- Reinstatement of floor beams and slabs after scarification of deteriorated areas.
- Restoring concrete floors (industrial, road and airport).
- Grouting rigid joints between concrete elements.



AVAGROUT MAGMA QUARTZ TR4

R4 /EN 1504 – 3/

Structural R4-class, rapid setting, shrinkage-compensated, thixotropic, fibre-reinforced, cementitious mortar, applied in a single layer from 3 to 40 mm thick, for repairing and smoothing concrete.

Structural repairs and smoothing over internal and external horizontal and vertical concrete surfaces; suitable for repairing structures exposed to the open air and in permanent contact with water.

Examples:

- Rapid repair work on deteriorated concrete beams, pillars, buffer walls, cornices, edges of balconies and structural members and elements that require the use of mortar with high mechanical performance characteristics.
- Quickly smoothing over surface defects in cast concrete, such as deep gravelclusters, spacer holes, second pours, etc. before painting the surface.
- Repairs and structural strengthening of concrete.
- Repairing precast concrete members and elements.
- Repairs to concrete damaged by rusty reinforcing bars due to carbonation.





AVAFER EN 15183 / EN 1504-9

One-component corrosion-inhibiting cement mortar for the protection of reinforcing rods

- Corrosion-inhibiting protection of concrete reinforcing rods.
- Adhesion improver for concrete repair mortars.

Application examples:

Re-alkalising corrosion-inhibiting protection for reinforcing rods in the repair of concrete carried out with shrinkage-compensated mortars from the AVAGROUT range or with standard cement mortars modified with synthetic based latex. It can also be used for underground concrete construction.

AVAFER meets the requirements defined by EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and evaluation of conformity - General principles for the use of products and systems") and the minimum requirements claimed by EN 1504-7 ("Reinforcement corrosion protection").



AVAHARD

Solvent-free, silicate based consolidator for cementitious substrates, with a high penetration capacity

AVAHARD is used for the following:

- deep consolidation of cementitious substrates with an unstable surface or with poor mechanical characteristics;
- consolidation of cementitious screeds which tend to have a crumbly surface due to hydration defects or a lack of binders;
- impregnation and anti-dust primer on cementitious surfaces.



AVACEM TURBO

Ready-to-use shrinkage-free rapid setting and hardening hydraulic binder

For fast fixing of every kind into vertical and horizontal substrates in concrete and masonry.

Some application examples:

- Sinking and securing foundation bolts, pipeclips, sanitary-ware, hinges.
- Laying sub-frames in wood and metal.
- Installing boxes and sheathes for electrical systems.
- Sinking and securing wooden plugs.
- Sealing concrete conduits, drains, tanks, etc.
- Stopping small water leaks in underground structures, cellars and lift wells.



REFERENCE BUILDINGS



Avalon[®]
BUILDING INDUSTRY



THERMO System 15
Thermal insulation with mineral stone wool
Family house



Avalon Thermo System
TED Complex - Plovdiv, Bulgaria





Thermo Ceramica
Facade System



AQUA BARRIERA
Pool waterproofing
Family house



AvaFace
Interior paints and primers



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