



-  Waterproofing
-  Sealant/Ahesive
-  REDI-MIX G&M
-  Flooring
-  Other Specialties

# PRODUCT CATALOGUE



# About Us



Aftek (ITLS INTERNATIONAL DEVELOPMENT CO., LTD.) integrated the leading technology and knowledge from Europe, America, Japan and Korea, in order to conducting business with more advanced and comprehensive service.

Our core service includes producing, selling and providing consultation of construction chemicals (inc. sealants, adhesives, waterproofing, ready-mix grout & mortar, flooring, and insulation materials...etc.), with a view to providing clients with complete solutions.



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# **Chemistry · Materials · Construction · Design**



- 2008 ► **ITLS-Taiwan** headquarter was founded in Taipei, Taiwan
- 2009 ► **ITLS-Taiwan** established local offices in Vietnam, Indonesia and Malaysia
- Obtained technical support from **Wessbond**, a DIY adhesives and sealant manufacturer in Singapore
  - Obtained technical support from **TWA**, a manufacturer of construction materials and wood protective finishes in Australia
  - **ITLS-Indonesia** mortar manufacturing plants was established
- 2011 ► **ITLS-Malaysia** established an automatic sealant repackaging line
- 2013 ► **TWA-Australia** obtained RLA manufacturing plant in Malaysia
- 2014 ► **Atherton** and **TWA** merged into **RLA-Australia**
- 2015 ► **ITLS-Vietnam** was reorganized.
- 2017 ► Reorganized **ITLS-Taiwan** and launched "**Aftek**" in Taiwan market officially.
- 2018 ► **RLA-Malaysia** set up a mortar production line.



# Waterproofing

Waterproofing plays a vital role in ensuring the long-term durability of a building. When applied correctly and considered carefully, the best service performance can be achieved. It requires knowledge and experience at the beginning of the project, and a commitment to quality throughout the entire process. In order to provide the most advanced waterproofing solutions, we work closely with our clients to understand their specific needs and requirements.

## A .Structure

**Concrete foundation**

**Raft foundation/ Tank**

**Steel deck**

## B .Surface

**Exterior/ Interior**

**Balcony/ Terrace**

**Bathroom/ Toilet**

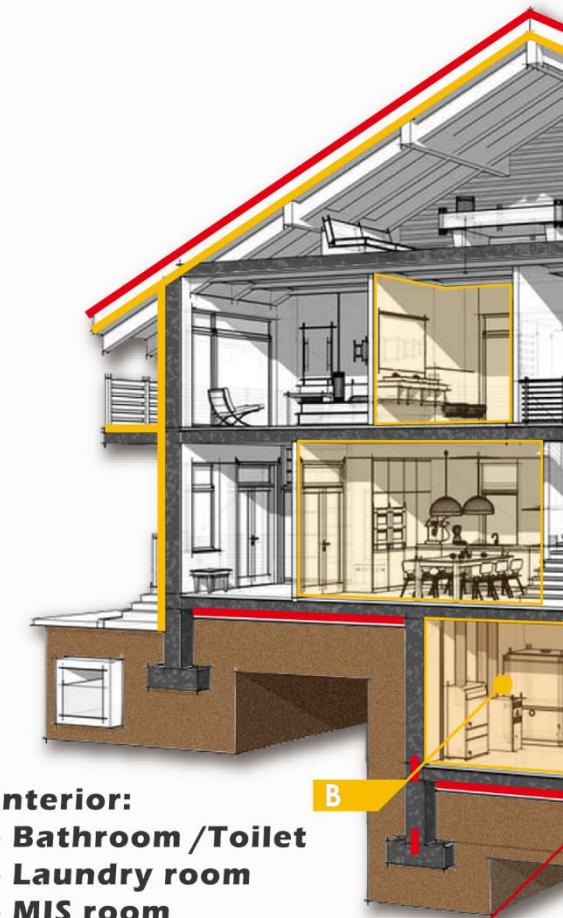
**Rooftop**

## C .Special

**Concrete planter**

**Pavement**

**Pool**



**Interior:**

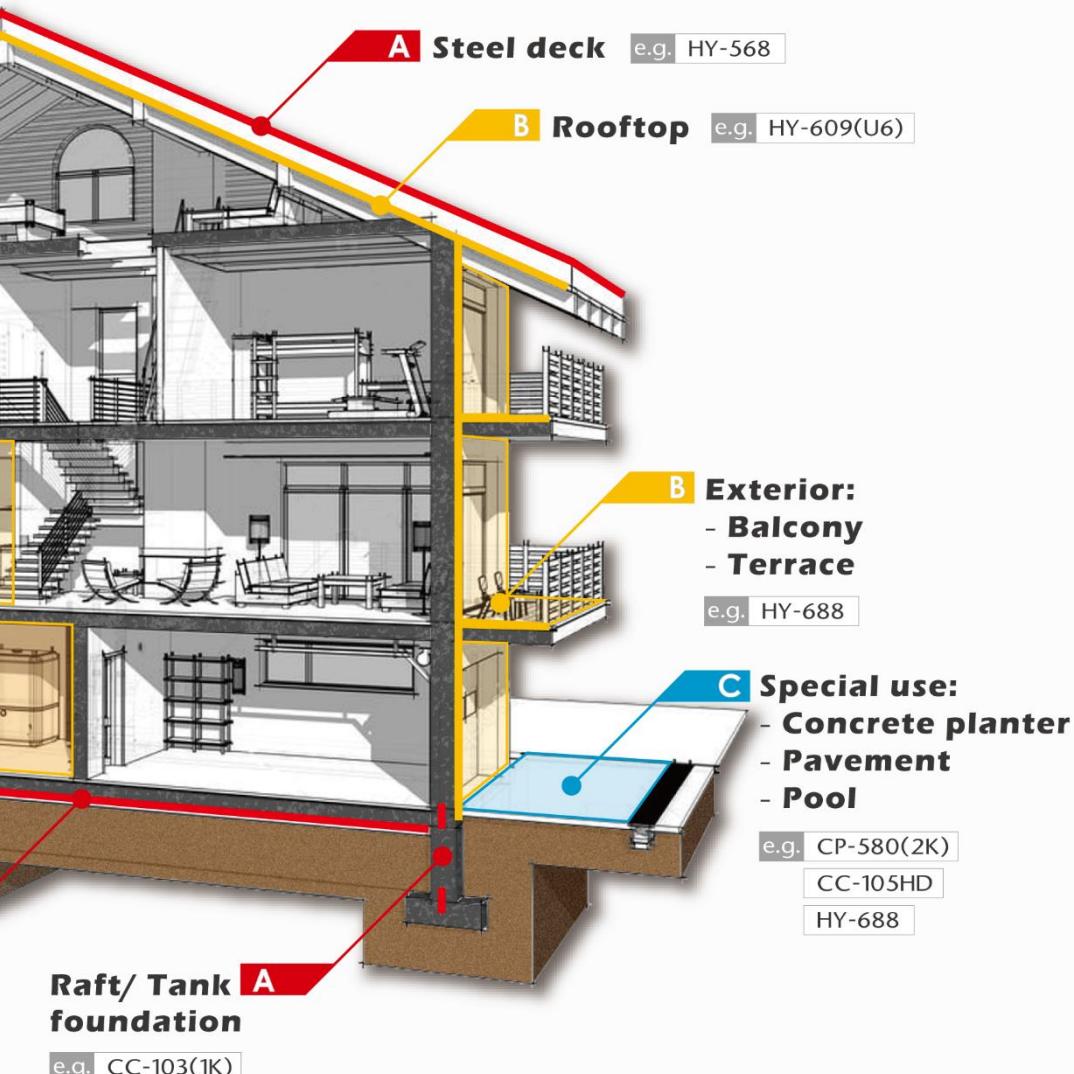
- **Bathroom /Toilet**
- **Laundry room**
- **MIS room**

e.g. HY-688

## Concrete foundation A

e.g. Bitumen Membrane Series

n concrete projects. If the materials and compatibility are considered, performance can be guaranteed. Aftek is improving products and guaranteeing the initial activity of the chemical building materials, advanced system services to our clients.



**CA-107****SBR**

## I USE

- Can be used as an additive to general repair mortar, or directly coated on the substrate as an interface-improving primer.
- Improve the adhesion of mortar as well as the waterproof effect.
- This applies to concrete roads, VES-LMC, bridge deck, cement buildings, and additives for repair materials, etc..

## I FEATURE

- Reinforce the connection between existing and new cement surfaces.
- High adhesion strength for adhesion to special materials like metal, etc..
- Good elasticity enables it to react flexibly to the motion of the coating material.



Water-based



Concrete rooftop

**Waterproofing****Sealant & Adhesive****Grout & Mortar****Flooring**

**I USE**

- Added to cement sand, it can reduce the water absorption of cement sand.
- Enhance properties such as physical force and chemical resistance.
- Enhance friction and impact strength properties.
- Enhance the adhesion of mortar as well as the waterproof effect.
- Increase physical properties like bending strength, and tensile strength.

**I FEATURE**

- Excellent bonding effect. Strong bonding force towards old concrete, bricks, wood, metal, glass, and other building materials.
- Reinforce the connection between old cement and new cement surface.
- Enhance the elasticity and tension of cement mortar.
- Repair the damaged surface.



Water-based



Mat foundation

## I USE

- Waterproof primer for cement.
- Industrial flooring.
- Bonding agent for new to old concrete.
- Provide effective prevention of efflorescence.
- One-component aromatic moisture curing PU ester.
- Made into a repair mortar to fill potholes and cracks in concrete surfaces.

## I FEATURE

- High penetration.
- Weather resistant.
- Excellent bonding strength.
- Low viscosity.



Solvent-based



Concrete rooftop

### CC-103(1K) Negative water pressure resistant

CC-103(1K) is a fusion resin powder that contains water-soluble crystalline mineral coating with special additive syntheses. It will have a protective coating that is firm and impacts resistance after curing.

- Prevent the construction aging phenomenon.
- Avoid leakage and mold on the wall.
- Effective against negative water pressure.
- With good stability.

### CC-103(2K) Negative & positive water pressure resistant

CC-103(2K) has high permeability which crystalizes and penetrates deeply into the capillaries of the concrete.

- The leakage of inner wall in basements or the protection against positive/negative water pressure.
- Prevent seepage and leakage in underground passages and tunnels.
- Avoid leakage of cisterns and pools.



Water-based



Concrete foundation



▲ The difference between positive/negative side waterproofing

## I USE

- Suitable for roofs, bathrooms, facades, aluminum window surrounds, floor joints, and basements where the outer wall needs to be waterproofed.
- If the waterproof layer of the external wall needs to be directly attached to the tiles, it is recommended to add the product 10~20% cement, so that the elasticity of the waterproof layer is moderate.

## I FEATURE

- Water-based, non-toxic, no pungent smell.
- Applied to a wet surface.
- Excellent adhesion.
- Ready to use, easy to operate.
- The remaining materials can be used continuously if stored properly.



Water-based



CA-016 applying

**CA-001** Acrylic-based emulsion

**CP-581** Acrylic-based emulsion

**CP-503** Acrylic modified copolymer

### I USE

- It is an elastomeric coating used on the surface of a cement wall, the latex can add more filler and change the viscosity unapparent.
- Can be used to mix cement, extend profile and reduce stiffness of cement, and it has flexibility and waterproofing after cement solidification.

### I FEATURE

- Eco-friendly, water-based, safe and non-toxic.
- Good workability because of high compatibility with cement and aggregate.
- Excellent elongation and tensile strength to protect the cement surface.
- High performance waterproofing application.
- Fast setting/drying speed and enhanced water resistance.
- Can be pasted to tiles easily, painted or applied to protect slurry layer.



Water-based



Exterior wall



Bathing pool

(U6)

**HY-609**

Water-based PU bituminous membrane



## I USE

- Waterproofing applications on roof, bathroom, terrace, under-ground external wall, and gardening area.
- Can be followed by waterproofing, heat insulation protective coatings.

## I FEATURE

- A breathable material that can be applied to damp surfaces.
- Excellent adhesion with cement so can be used directly as a soft base for tile laying.
- Can be subjected to long periods of immersion in water without bubbling.



Water-based



Interior waterproofing



Bathing pool

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

## I USE

- Indoor: bathroom, kitchen, and terrace.
- Outdoor: roof, floor joint, parapet, and wall.
- Applied to the middle layer of the tile, the top coating, or each cement-based finished surface.

## I FEATURE

- Single pack.
- Liquid-applied & easy to apply.
- Excellent hydrolysis resistance.
- Still can cure while applied on a moist surface.



Excellent Hydrolysis resistance



Water-based



Bathroom



Concrete Rooftop



Landscaping

# HY-568

# High performance waterproof coating



## I USE

- Suitable for Bathroom, Balcony, Terrace, Roof (flat/sloping), floor seams and parapet.
- Suitable for old and new waterproof engineering made of acrylic or PU material.
- Waterproof repair for new and old metal iron roofs.
- Can be directly tiled or exposed directly after drying.

## I FEATURE

- Excellent adhesion to cement.
- Excellent water and UV resistance, forming excellent weather resistance.
- Can effectively block heat transmission (solar reflection coefficient SRI>90).
- After completely curing, the water-proof layer of the roof is walkable.



Suitable for ourdoor use



Water-based



Metal decking panel



Exterior wall



Concrete rooftop

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

## I USE

- Suitable for foundation, basement wall, roofing, water tank, swimming pool, bridge piers protection, and abrasion flooring.
- No building restrictions, and a wide working temperature range. None sensitive to temperature and humidity, it can be hardened at 5°C.
- Can be applied at -40°C~120°C.

## I FEATURE

- Environmental protection and high solid content.
- Excellent adhesion to a wide range of substrates.
- Excellent flexibility, elasticity, and corrosion resistance.
- Anti-abrasion and strong mechanic properties.



Fast curing



Solvent-based



Concrete rooftop

## I USE

- Suitable for indoor and outdoor floors like parking lots and shopping malls as well as indoor and outdoor wall and floor decoration of homes.
- Can be used on the floors of plants and clean rooms.
- The dry film has air permeability and hydrophobicity and is suitable for places with high humidity and high pollution resistance.
- Can be used as waterproof paint and glossy surface protection paint.

## I FEATURE

- After drying, it will form a waterproof, anti-fouling, mildew-resistant, non-cracking, weather-resistant, and chemical-resistant glossy protective film.
- Excellent air permeability and wear resistance.
- The fine and smooth texture of the finished surface can enhance the integrity of the surface finish.
- Excellent leveling property, no brush marks will be left after repeated coating.



Water-based



Park pavement



Basement car park

### CP-108 Self-adhesive membrane

- Foundation and basement waterproofing.
- Flooring, roof deck waterproofing.
- Interior and exterior walls.
- Tunnels, reservoirs, sewage treatment tanks.

### OP-904 Bituminous Primer

- Trafficable Roofs, Roof Gardens, Balconies and Terraces.
- Concealed Roofs, Re-roofing.
- Decks, Basement, and Landscaped areas.

### OP-908 Bituseal (cold-applied bitumen sealing)

- Prevent the construction aging phenomenon.
- Avoid leakage and mold on the wall.
- Effective against negative water pressure.
- With good stability.

### OP-911 Oxidized Bitumen

- Bituminous Block for Torch-on.
- Foundation damp-proofing.
- Built-up roofing systems.
- Bonding of wooden boards' insulation panels.
- Road resurfacing and repair.

### ► Torch-On membrane series (gravel/sandstone type)

- Foundation, flooring, roof deck, and basement waterproofing.
- High stability with excellent tensile and adhesive strength.
- With chemical resistance ability.

# Sealant & Adhesive

Features of Aftek sealants  
ity are to be considered b  
market, most adhesive pro

## A .Building

**A-1 Interior finishing**



**A-2 Window frame**

**A-3 Precast panel**

**A-4 Hardware**

## B .Traffic Eng.

**B-1 Guardrail**



## C .Special

**C-1 PV panel**

**C-2 Thermal device**



**C-3 Electrical / electronic parts**

**C-4 Fireproofing**

	a	b	c
A-1	●	—	●
A-2	—	●	●
A-3	—	—	—
A-4	—	—	—
B-1	—	—	—
C-1	—	—	—
C-2	—	—	—
C-3	—	—	—
C-4	—	—	—



CS-001



DS-792



MP<sup>+</sup>



DS-811



DS-119S

a

b

c

d

e

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

ts such as weather resistance, mechanical strengths and durability based on project needs. In response to the booming wellness products are available in water-based, low-VOC versions.



Sealant/Adhesive

●: Recommended use

## Use of Sealant & Adhesive Products

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PV-4200



FLEX-PRO PU



MS



CS-613FD



CS-107



CS-107W



CS-340

f

g

h

i

j

k

l

# CS-001 Gap Filler



Sealant/Adhesive

## I USE

- Ideal for sealing seams, joints, and cracks around windows, doors, siding, woodwork, and air conditioner.
- Forms an airtight seal to prevent air and moisture when applied to surfaces e.g., wood, brick, masonry, drywall, concrete, ceramic tile, and glass.
- Restriction: DO NOT use for adhesion/sealing for glass or structures unit.

## I FEATURE

- Easy to use, flexible, and smooth after curing prevents cracking.
- Composed of Eco-friendly, water-based polymer emulsion, and inorganic filler.
- Can be painted by water-based painting.



Water-based



Baseboard gaps



Indoor hardware

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring



## I USE

- Window & window Frame joint sealing.
- Interior & exterior joint sealing.
- Aluminum frame assembling.
- Curtain wall joint sealing.

## I FEATURE

- Excellent weather fastness.
- Excellent durability.
- Excellent bonding strength on a wide of substrates without primer.
- Easy installation with a good extrusive feature.



Suitable for ourdoor use



Neutral cure type



Window metal frames (outdoor)

PLUS

**MP<sup>+</sup>**

Multi-purpose neutral silicone sealant



Sealant/Adhesive

## I USE

- Ideal for a wide of construction parts.
- Windows and Al sash frame joint sealing.
- Glass, mirror, PVC, metal, panel sealing.
- Easily squeezable and curing at room temperature.

## I FEATURE

- Excellent adhesion to a wide of materials without any primer.
- Multi-purpose silicone sealant with low odor.
- Excellent durability and adhesion.
- Low corrosive properties.



Neutral cure type



Window metal frames (indoor)

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring



## I USE

- Application of external exposure energy equipment, e.g.: sealing of solar panel frame.
- Thermal insulation sealing and caulking of heating equipment.
- Compatible materials: aluminum, stone, glass, PVC, fabric, etc.
- Seal the caulking around the boiler exhaust box.

## I FEATURE

- Excellent adhesion under high temperatures.
- Excellent adhesion for Al panel, stone, glass, PVC, and wool.
- Suitable for different substrate surfaces without primer treatment.
- Hardening at room temperature and non sag.
- Operating temperature: -50 to 250°C



Neutral cure type



Thermal equipment



### FR-46 Firecaulk Sealant

FR-46 contains fire resistance properties for fire-rated concrete, masonry wall and plasterboard. It is recommended for the use of fire-rated wall but also suitable for needed gap filling of buildings.

- Sealing the joint gap, suitable for pipe parts. E.g.: Water pipe, cable tray, plumbing, and windpipes, etc.
- Seams of fire-rated walls, floor slabs, and roofs.
- Seams of various pipes and fire-rated fittings.
- Compatible materials including cement, concrete, bricks, gypsum boards, wood, steel, aluminum, glass, and PS...etc.

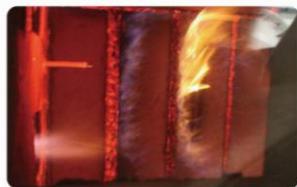
### FR-48 Fire-Retardant Sealant

FR-48 is the fire resistant silicone of sealant, one component and neutral curing type. This product has excellent adhesion to general industrial materials and meets UL94-V0 rated.

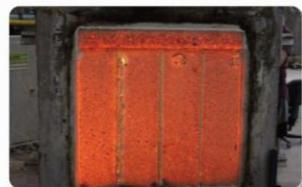
- Protection and adhesive sealing of electrical and electronic components and terminals (power supplies, connectors, sensors, relays, high voltage resistor pack, etc.).
- Hybrid substrate and case bonding.
- Bonding of electric, electronic, and automotive materials that require other flame retardant performance.



Fire resistance



During the fire test



After the fire test



### PV-4200    Silicone sealant for PV module

PV-4200 is the product designed to be required long term bonding and protection functions against moisture, mechanical and thermal shock, and vibrations. It reacts with moisture in the air to form the strong adhesion to most materials, and possesses excellent durability, air tightness, waterproofing and elasticity.

- Excellent adhesion to a wide of materials (e.g., PV module, metal panel, glass, etc.) without primer.
- Excellent weather fastness, water resistance, durability, air tightness, and elasticity.
- Corrosion-free with metals.

### PV-711    Potting of Solar Module Junction Boxes

The Potting material is a two-component room-temperature curing binder used for the junction boxes of solar modules. It provides thermal management (preventing overheating) and protection from environmental elements.

- Two components, fast room temperature cure.
- Thermal conductivity  $>0.5\text{W/mk}$ .
- Comply with UL94 V-0.
- Excellent resistance to durability tests.



UL Yellow Card approved



Neutral cure type



Solar (PV) panel



## I USE

- Precast façade unit sealing and ceramic joint sealing.
- Construction expansion joint and natural stone joint sealing.
- Window, door frame perimeter joint, and lightweight cladding panel.
- Building material joint sealing, e.g., fiberglass, rigid plastic, etc.

## I FEATURE

- Can be overpainted by water-based paints after drying (compatibility tests are required for oil-based paints).
- Non-toxic, non-sagging, and non-staining.
- Excellent adhesion to PVC materials.



Suitable for outdoor use



Window frame



Concrete joints



Jersey barrier



## I USE

- Applied to moist surfaces, one-component sealant for sealing/- bonding for the construction industry.
- Suitable for areas including elastic bonding in vibrating constructions, concrete expansion joints, sealing where acoustic properties are required, perimeter sealing around window/door frames, and sanitary applications.
- Compatible with materials including brickwork, ceramics, stone, granite, and marble.

## I FEATURE

- Excellent adhesion on both porous and non-porous substrates.
- Excellent durability and weather fastness.
- Color stability and UV resistance.
- Non-staining and non-toxic.



Paintable



Suitable for ourdoor use



Stone wall joints



Racing track joints

# CS-613FD

Water-based premium epoxy adhesive



Sealant/Adhesive

## I USE

- Suitable for the interior tile walls and floors required anti-mold-ing.
- Suitable for areas with high standard sanitary, e.g., the tiles sealing in swimming pools, bathrooms, shops, hospitals, and hydrotherapy centers.
- Can repair the floor and construction cracking parts.
- Suitable for interior decoration panels adhesion.

## I FEATURE

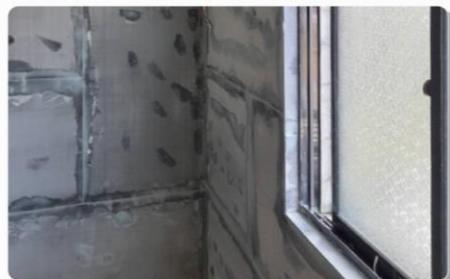
- Low odor, VOC- free, solvent- free.
- With soft consistency making it is easy to use on vertical walls and ceilings.
- Low shrinkage and high hardness due to high solid content.
- Compatible with water-based painting.



Fast curing



Water-based



Interior wall panels

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring



## I USE

- Low odor and free of aromatic solvent for use indoor and outdoor.
- User-friendly, making it easy to use on vertical walls and ceilings.
- Power Screw can be used in most common construction materials. The substrates are timber, plywood, MDF, particle board, hard board, plaster board, cementitious fibrous board, concrete, ceramic, aluminum, mild steel, galvanized iron sheet, and back of mirror (on a wall only).

## I FEATURE

- Easy to spread the adhesive evenly and thinly due to its soft buttery consistency.
- High solid content, pseudo-plastic.
- Flexible but tough for use around home and in construction.
- No-slump characteristic.



Non-corrosive



Solvent-based with no aromatic solvents



Construction materials

# CS-107W

## Power Grab - waterbased adhesive



Sealant/Adhesive

### I USE

- Wood, light organic solvent preservative wood, plywood, medium density fiber dimensional board, plastic plywood, cement board, gypsum board, bricks, ceramics, stone wood, metal, and concrete. ( If other substrates are required, please contact Aftek)
- Restrictions: Not suitable for plastics such as PP, PE, and Nylon.

### I FEATURE

- High tenacity and elasticity.
- Good heat resistance.
- Odorless, non-volatile components, safe for indoor use.
- Does not sag or slide on smooth surfaces.
- No running glue and retractability.
- Does not contain sodium hydroxide, and ammonia.



Non-corrosive



Water-based



PS sheets bond with concrete

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring



### I USE

- Gun applied polyurethane foam and easy to apply with dispenser guns.
- Used for fixing, insulating against sound, cold and draughts around window/door frames, pipe entries around air-conditioning vents, roller blind housings etc.
- Gap filling between roof construction and heat insulation layer.
- Used for insulating and filling connection joints.

### I FEATURE

- Excellent heat insulation and sound dampening.
- Easy application with dispenser guns.
- High expanding rate and fast curing.
- HCFC and HFC free.
- Age resistant.



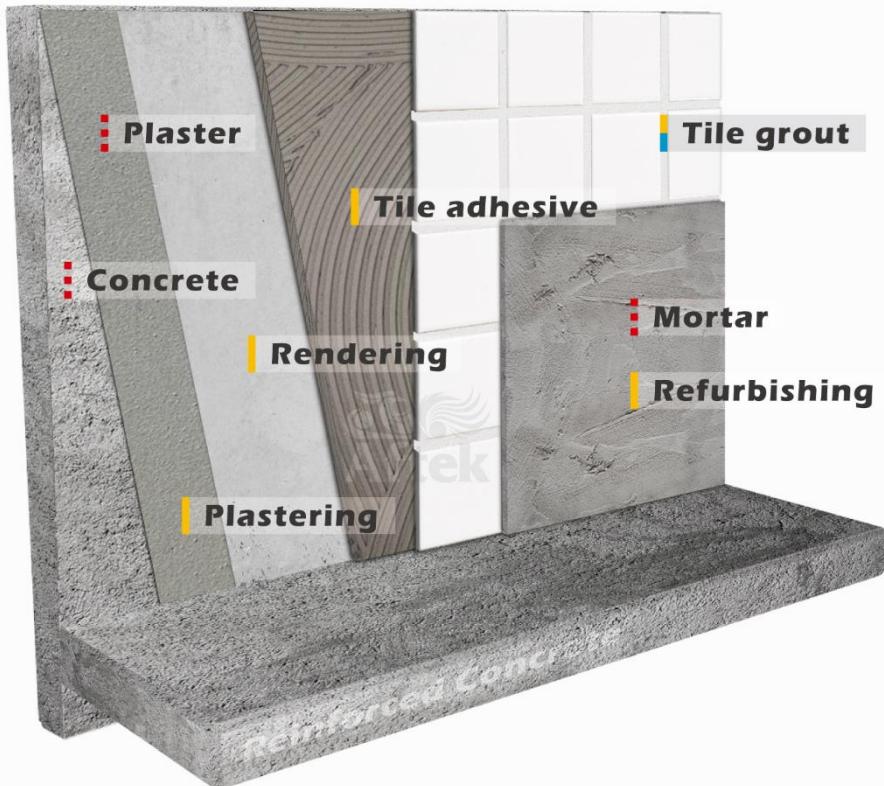
Fire resistance



Window installation gaps

# Grout & Mortar

The REDI-MIX products are all pre-mixed to decrease on-site mixing mistakes and offer a wide range of applications, including:



## A .Additive

<b>Concrete</b>	CC-100R
<b>Plaster</b>	CC-100M
<b>Mortar</b>	CC-100M

## B .Walling

<b>Plastering</b>	CS-010
<b>Rendering</b>	CS-006FC
<b>Tile adhesive</b>	STARCOAT
<b>Tile grout</b>	CA-109
<b>Refurbishing</b>	CA-110
	CA-004
	CS-009

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

prepared in the factory for precise proportions, in order to help ease as possible, and also improve workability. The series covers a luding structural repairing and grouting products.



## C .Flooring

### Leveling

CA-010

### Tile grout

CA-004

### Pothole repair

CA-007

## D .Special

### Steel fireproof

CA-100FR

### Concrete protection

- ① Crack repair CA-403
- ② Pothole repair CA-404
- ③ Primer CA-401
- ④ Top coat CA-402

| Relevant products are not necessarily applied in the order illustrated above. Please refer to our sales representatives for more information.

## Waterproofing Admixture



**CC-100M** Nano-tech water repellent

**CC-100R** Integral crystalline waterproofing admixture

### I USE

- Ready-mixed concrete, cast iron concrete and sprayed concrete.
- Concrete, mortar and cementitious grout. Storage tanks, harbor engineering and wastewater/water treatment plants.
- Beams, foundations, masonry laying, floor and wall cladding mortars, plasters, slabs, slope walls, buried structures (e.g., water tanks, reservoirs and pools), waterproofed, reinforced and reinforced concrete, etc.)
- Cellars, tunnels, underpass systems, Parking lot structure and swimming pool (Non-toxic, VOC-free, comply with NSF drinking water standards.)

### I FEATURE

- Excellent durability and can seal fine cracks.
- Prevent the intrusion of moisture.
- Improve the rigidity of mortar.
- Eco-friendly and Non-toxic.



Adding into cement during mixing

## I USE

- Ideal for use with ceramic tile (non-absorbent), marble, granite, and porcelain tile with a maximum joint width of up to 4mm.
- A unique grout for tile and applied to the joints of low water absorption tiles.

## I FEATURE

- Suitable for indoor and outdoor use.
- Smooth appearance and Non-Shrinking.
- Consistent and homogeneous color.
- Easy to clean and Non-Toxic.
- High-efficiency waterproof performance.



Grout pressing



Exterior wall

## Cement based tile adhesive



**CA-109** STARFIX General purpose

**CA-110** STARFIX Premium High Performance

### I USE

- Internal and external areas.
- Thick and thin bed application.
- Concrete, cement mortar bed, cement plaster.
- Floor screed.
- Brick masonry.
- Restriction: Do NOT use CA-109 on flexible substrates, fiber cement boards, gypsum boards and wood.

### I FEATURE

- High strength cement-based tile adhesive.
- High bonding strength.
- Non-toxic and odorless.
- No-sagging.
- Easy to clean.



Adding into cement during mixing

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

## I USE

- Bridge bearing pad.
- Expansion joints.
- Secondary construction area.
- Grouting in steel columns.
- Machine base grouting.

## I FEATURE

- Early height change rate <0.015%.
- Non-shrink grouting.
- High fluidity and easy to apply.
- Chloride-free.



PV system (stand base)



Base grouting

## I USE

- Water-based reinforced with acrylic polymers and graded fillers primer for concrete and masonry surfaces.
- Improve adhesion between the substrate and subsequent coats.
- Prime before CC-402 Rockflex.
- As the treatment for concrete and masonry surfaces.

## I FEATURE

- Improves adhesion.
- Improves the finish of topcoat Non-toxic.



Concrete protection



Water-based



New-to-old concrete interface

## I USE

- Used for protection and enhancement of concrete structures (normal and lightweight concrete), especially exposed outdoor concrete surfaces with a risk of cracking.
- Used with concrete repair works as an elastic protective coating on AFTEK smoothing mortar (refer to product/system datasheet), fiber cement, and over-coating of existing soundly adhering coatings.

## I FEATURE

- Suitable for protection against ingress and moisture control.
- Suitable for increasing resistivity.
- Crack-bridging even at low temperatures (-5°C).
- High diffusion resistance against CO<sub>2</sub> reduces the rate of carbonation.
- Water vapor permeable.
- Very good resistance against weathering and aging.
- Environmentally friendly (solvent-free).



Concrete protection



Concrete bridge refurbishment

## I USE

- Bonding, pouring, caulking, repairing, priming and surface coating of the old and new concretes.
- Repair damaged concrete/masonry surfaces.
- Filling anchor bar, bearing bolts and base plate.
- Repair concrete peeling caused by steel bar corrosion. Strengthen the original base material.
- Surface spalling and large area repairs.

## I FEATURE

- Excellent adhesion.
- High mechanical strength.
- Chemical resistance.
- 100% solid content, solvent-free and Low VOC.
- Comply with AS4020 drinking water standard.



Concrete protection



Concrete bridge refurbishment

## I USE

- Suitable for grouting heavy-duty supports beneath cranes and transporter rails.
- Anchoring bolts, bars and fixings.
- Bonding new to an old concrete adhesive promoter.
- Repairing cracks in horizontal surfaces, filling in holes, and cavities.
- Grouting of column bases.
- As a protective coating for concrete and steel structures.
- Corrosion protection on steel reinforcement prior to application of concrete repair mortar.

## I FEATURE

- Apply to bonds to damp substrates.
- High early strength, high flow properties, high tensile and mechanical strength.
- 100% solid epoxy, negligible shrinkage.
- Solvent free and high chemical resistance.
- Rapid hardening and strength gain.
- Excellent adhesion to most substrates.



Concrete protection



Overhead concrete



Heavy-duty structure

# STARCOAT - cementitious plastering skim-coats



## CS-006 FC Fair-faced concrete

### I USE

- A two-component product.
- Ideal for floors, walls and decoration walls (interior and exterior).
- Cracking repairing for concrete surface.

## CS-006CN For external wall repairing

## CS-006 PL For Internal wall repairing

### I USE

- Cement based wall plaster.
- Precast concrete.

### I FEATURE

- Light, good workability and sanding properties.
- Smooth surface, solid and no powdery.
- Excellent adhesion to substrate after drying.
- Can be painted or finished with wall paper directly after drying in a minimum of 24 hours without using PVA putty to level up and fill uneven rough surfaces.



Fair-faced exterior wall refurbishing

Waterproofing

Sealant & Adhesive

Grout & Mortar

Flooring

**I USE**

- Suitable for tiles, steel, smooth surface and low porosity of the material surfaces.
- To adhere to an old and new concrete surfaces.
- Applied to adhesion to old interior/exterior cement walls, fiber cement board, tiles, concrete, colored steel board, asbestos and green compartment plates, etc.

**I FEATURE**

- Waterproofing and impervious.
- Can be used both on wet and dry surfaces.
- Excellent adhesion and weather resistance.
- Freeze-thaw resistance.



Wall refurbishing directly on tiles

**I USE**

- Make the surface smooth through a thick layer.
- Suitable for interior and exterior walls.
- Suitable for ceiling and metal plaster board.
- Applied to small area ceiling rendering.

**I FEATURE**

- Apply by spraying machine, save the material and time and also keep the site clean.
- Without cracking and bulging after curing.
- Can be layered with other materials.
- Excellent adhesion and Non-sag.



Structural steel fireproof protection

## I USE

- Ideal for the interior steel structure of the building.
- Special inorganic fireproof materials.
- Contains no asbestos, and styrene polymers that can be harmful to the human body.
- Provides fire protection for floor, roof groups, steel beams, steel pillar and joists of commercial buildings.

## I FEATURE

- Impact and compression resistance.
- Can be coated on various protective decorated coatings.
- Fireproof Certification.
- Easy to apply.



Certified fireproof



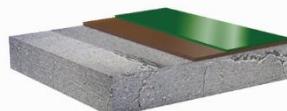
Structural steel fireproof protection

# Flooring

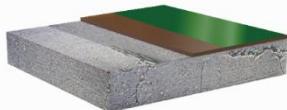
Aftek flooring system, which includes primer, mid coat and top coat, developed to meet various application needs. In addition, we offer on-site technical support, in order to help our clients to overcome any challenges.



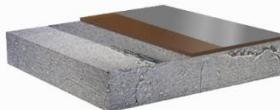
**A**  
*Anti-slip Flooring*



**B**  
*Solvent-free Epoxy Flooring*



**C**  
*High Solids Epoxy Flooring*



**D**  
*Cold Applied Polyurea Flooring*



**E**  
*PU Mortar Flooring*

Waterproofing

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**Flooring**

mid-coat and top-coat made of different chemical bases, is developed. In addition to providing products with high quality, we also offer our clients to choose the most suitable products according to the site.



		Flooring System				
		A	B	C	D	E
Application	Str. of substrate (concrete)	≥ 2000psi	≥ 3500psi	≥ 3500psi	≥ 4000psi	≥ 4000psi
	(1) Primer	CA-002W	910SP	910SP	910SP or 920SP	
	(2) Midcoat	—	915ABM2	915ABM2	915ABM2	—
	(3) Topcoat	HY-570	910ABT	926T	AS-600FT	CC-800
	Live Load (kg/m <sup>2</sup> )	300~400	≥ 500	≥ 500	≥ 600	≥ 600
	Hardness	△	★	★	●	●
	Wear resistance	—	★	★	●	●
	Impact resistance	—	△	△	★	★
	Outdoor	★	×	×	★	●
	3% HCl	●	×	×	●	●
Physical Prop.	5% H <sub>2</sub> SO <sub>4</sub>	●	●	●	●	●
	10% H <sub>2</sub> SO <sub>4</sub>	△	△	△	△	△
	5% NaOH	●	●	●	●	●
	10% NaOH	△	●	●	●	●
		★: Excellent	●: Good	△: Not good	×: Bad	—: Lack of data

| The properties above are only for selection guidelines. For actual performance or further information, please refer to the TDS or test reports.

### I USE

- Make a protection waterproofing layer on Bathroom, Kitchen, Laundry Room, Balconies, Terraces, Water Tank, Water Reservoir and External Wall.
- Can be used as a cushion to prevent water leakage.
- Can be used as an underlayment to prevent water seepage from the ground before laying marble, granite, natural stone, timber floor, carpet and vinyl.
- Compatible with concrete and any mixture of cement-sand rendering/plastering.

### I FEATURE

- After drying, it will form a wear-resistant waterproof layer, which can be tiled over smoothly.
- Can be painted with water-based & solvent-based paints after drying.



Water-based



Factory floor leveling

## I USE

- Applied on high flat base surfaces, e.g., epoxy floor, polyurethane floor, PVC coil, rubber floor, solid wood floor and diamond board etc..
- Suitable for large commercial space, factory, pharmaceutical factory, GMP food factory, electronics factory clean room, stadium polyurethane elastic floor etc...
- Its self-leveling feature can adjust the flatness of the ground.

## I FEATURE

- Easy to use, just add water to mix after opening.
- Excellent moisture resistance and strong protection for concrete substrates.
- DO NOT expose, the top should be covered with floor materials, e.g., ceramics, granite, carpets, wooden floors, etc...



Water-based



Office flooring



Hospital flooring

# Epoxy flooring primer/midcoat for concrete



## ► Epoxy primer series

- 2K transparent epoxy primer for concrete.
- The primer for concrete floor enhances the adhesion with the covering layer.

Primer series	910SP	920SP	
Type	solvent-based	solvent-free	
Mixing ratio (Part A:Part B)	3 : 1	2 : 1	
Pot life (25°C)	approx. 6 hr.	approx. 1 hr.	
Tack free (25°C)	approx. 1 hr.	approx. 4 hr.	
Waiting time to overcoating	min. max.	3 hr. 5 days (25°C)	12 hr. 5 days (25°C)

## ► Epoxy midcoat series

Suitable for concrete floors, mortar floor coatings for hospitals, G.M.P pharmaceutical factories, sterile rooms, electronics factories, textile factories, high-purity dust-proof factories, offices, exhibition halls, packaging rooms, and auto repair factories.

Midcoat series	915ABM2	918ABM2G	
Type	solvent-free/self-leveling	solvent-free/GBM*	
Mixing ratio (Part A:Part B)	2 : 1	2 : 1	
Pot life (25°C)	approx. 30 min.	approx. 30 min.	
Tack free (25°C)	approx. 5 hr.	approx. 5 hr.	
Waiting time to overcoating	min. max.	18 hr. 5 days (25°C)	18 hr. 5 days (25°C)

\*GBM: Green Building Materials (Taiwan)



910SP applying



920SP applying



915ABM2 applying

# Epoxy flooring topcoat for concrete



Flooring

## I USE

- Form a smooth and tough film.
- Suitable for factories, e.g.: sterile rooms, electronics factories, textile factories, high-purity dust-proof factories, offices, exhibition halls, etc.

## I FEATURE

- Excellent mechanical strength and wear resistance.
- Excellent adhesion and easy to clean.
- Highly protective for flooring.

Topcoat series		910ABT	926T
Type		solvent-free/self-leveling	solvent-based
Mixing ratio (Part A:Part B)		4 : 1	5 : 1
Pot life (25°C)		approx. 30 min.	approx. 6 hr.
Tack free (25°C)		approx. 6 hr.	approx. 5 hr.
Waiting time to overcoating	min.	20 hr.	8 hr.
	max.	5 days (25°C)	5 days (25°C)



Basement car park



Factory flooring

## Water-based epoxy products on concrete floor



### ► Water-based epoxy floor primer

- Suitable for hospital, office, showroom, warehouse, and factories.
- It can apply by brush, roller, and spraying coating.
- Water-based epoxy floor primer is the 2k yellowish epoxy primer for concrete.
- Water-based epoxy floor primer used in 10~40°C.
- Increase cohesion between coating systems and substrate.

### ► Water-based epoxy floor middle coating

- Suitable for hospital, office, showroom, warehouse, and factories.
- It can apply by brush, roller, and trowel coating.
- A two-component water-based epoxy middle coat.
- No solvent, no fire hazard, no air pollution.
- Low viscosity and can form a flat and smooth paint film.
- The coating has good film-forming properties and water resistance.



Water-based



Showroom flooring

### I USE

- Top coat over other waterproofing systems.
- Protective surface coating for a waterproof coating system.
- Ideal for Roof parking decks, balconies, terraces with high traffic and tiled surfaces.
- Dry within 4 hours after completion and allow most of the projects can be completed within 1 day.

### I FEATURE

- High chemical resistance (e.g., diluted acid, alkali, engine oil, and gasoline, etc.).
- High UV resistance and weather resistance.
- High waterproofing feature.
- High resistance to abrasion and mechanical durability.



Suitable for outdoor use



Excellent durability



Solvent-based



Rooftop flooring



Rooftop car park

### I USE

- Ideal for Chemical processing plants, Food processing plants, Beverage factories, warehouses, Logistics centers, minerals processing plants, garbage disposal sites and waste treatment plants...etc.)
- A four-component self-leveling seamless PU floor mortar.
- Applicable to high performance resin flooring systems.
- The applicable temperature is between -15°C~90°C.

### I FEATURE

- Excellent chemical resistance (e.g., organic acids, animal/ vegetable oils, petroleum and solvents.)
- High impact resistance, abrasion resistance and thermal shock resistance.
- Antibacterial (with HACCP certification).
- Self-leveling, quick-drying, odorless and solvent-free.



Impact resistance



Thermal shock resistance



Factory flooring



Warehouse flooring

### I USE

- A pre-mixed, pre-coloured, water-based and UV stable coating.
- Suitable for tennis court maintenance, sidewalks, playgrounds, recreational areas around homes, municipal, educational and commercial buildings.
- Suitable for stair treads, decks, balconies, ramps, and is easy to repair or repaint after cleaning.
- Providing a safe surface coating.

### I FEATURE

- Slip-resistant, durable, stain and UV resistant.
- Excellent wear and weather resistance.
- Easy to repair/recoat after cleaning.
- Can apply on asphalt roads.



Suitable for ourdoor use



Water-based



Indoor sports room



Anti-slip driveway



Slope driveway



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