



**Chimi Sazeh Armani**

Concrete Admixtures, Construction Adhesives & sealant

### Knowledge for future comfort

Chimi Sazeh Armani is a brand name of construction chemicals produced by an engineering and knowledge-based company, Sanat Bam Golestan in Iran. This company provides engineering services to improve scientific culture continuously in the field of construction, mass concreting, metal structure protection and maintenance process. Besides, it is progressively expanding its activities in providing new solutions and manufacturing new generation of concrete admixtures, various types of insulators, water proofing systems, sealant, industrial and protective coatings and construction chemicals.

Sanat bam Golestan has been established since the beginning of 2000. The factory is located in large area at Agh-Ghala industrial zone, around Gorgan City. By obtaining many kinds of valuable certificates such as approval of being knowledge-based company, National Standard Organization Certificate, Quality Management System Standard (ISO 9001), and Environmental Management System Standard (ISO 14001), this company has successfully served many national and macro projects in the field of construction.

This company gained the opportunity to present several scientific papers in seminars and conferences related to various industries such as Oil and Gas, Waste Water, Metal industry, and Mass Construction. The aim was to share the knowledge of sealing, protecting and raising the durability of concrete structures, to improve the mechanical strengths and finally to increase the speed of construction with standard quality.

This productive company is equipped with high-tech production equipment, efficient knowledge-based R&D and D&D unit, continuous quality control section, modern laboratory as well as intelligent engineering unit, sales staff, customer service, and innovation as the most important organizational strategy result in wide-spread use of the products and customer satisfaction.

The company also provides key accounts with surface protective coating such as Epoxy, Polyurethane, Polyurea and Anti-Acid systems in cooperation with some reputable European corporates such as Steuler-KCH, GBT, REMA TIP TOP, and AKFIX Coatings.

Creativity and innovation |

In the production are based on customer's needs, giving training in human resources as valuable organizational assets and provision of a distinctive and valuable services to the customers are the integral parts of this company. Moreover, the vision of this company is to consider customers' needs, with emphasis on principle of the partnership in line with mutual benefit and win-win situation; therefore, all the organizational sectors in this company are based on this strategy. This company is always ready to provide technical and engineering services to clients in all related industries.



## Concrete Admixtures

### ◆ Silica Fume Slurry Admixtures

Densified silica fume slurry admixtures are formulated to produce extremely strong, waterproof and durable concrete. As a pozzolan, silica fume reacts chemically within a cementitious matrix to increase the compressive strength and lowers the permeability of concrete. They meet the requirements of ASTM C 1240 Standard specification.

Silica fume admixtures produced in different grades such as SF-MIX gel with high dosage of silica fume (used for waterproof and anti-corrosion concrete), SG-MIX with medium dosage of silica fume (used for high strength concretes), ACP-MIX with high performance workability (used for mass concreting) and Silica Fume Slurries (used for low permeability concretes). All of the admixtures can be provided with synthetic fibers.



### ◆ Superplasticizers / High-range water reducers

High-range water reducers greatly reduces water demand and cement contents to make low water-cement ratio, high-strength concrete with variety of workability. They meet ASTM C 494, ASTM C 1017 and IZIRI 2930 Standard Specifications. A water reduction of 12% to 30% can be obtained through the use of these admixtures which will cause ultimate and increased early compressive strengths, reduced chloride-ion penetration and other beneficial properties such as high slump flowing concrete.

Our superplasticizers are based on chemicals such as Lignosulfonates, Sulfonated melamine formaldehyde condensate, Sulfonated naphthalene condensates and Polycarboxylate ethers.



### ◆ Viscosity Modifier Admixture

VM-MIX viscosity modifier admixture (VMA) is a premier ready-to-use liquid super plasticizer specially developed for producing concrete with enhanced viscosity and controlled rheological properties. Concrete containing VM-MIX admixture exhibits superior stability and controlled bleeding characteristics, thus increasing resistance to segregation and facilitating placement. VM-MIX meets ASTM C 494/C 494M Type S requirements.



### ◆ Water Repellent and Efflorescence Control Admixture

SEAL-MIX admixture is used to produce hydrophobic concrete. Presence of this admixture in concrete will dramatically reduce the rate at which water enters the concrete. SEAL-MIX is produced in two grades of liquid and powder form.



### ◆ Set Time Accelerating Admixtures

Set time accelerating admixture is a non-chloride, accelerating admixture formulated to accelerate concrete setting and increase early and ultimate strengths. This product can be produced in different grades such as accelerating superplasticizer, anti-freeze admixture and quick-set admixture in liquid and powder forms.



### ◆ Other Concrete admixtures

Admixtures such as retarders, air-entraining and foaming agents, shotcrete, shrinkage and crack reducer admixtures.





## Waterproofing Systems

### Insulation Membrane

Insulation membrane is made of refined bitumen, modified polymers, preservatives and mineral fillers in two different types including APP polymer-based membrane and BOF. This product is used for insulation of pool, roof, bathroom and kitchen regarding to its adhesion to surface, low permeability and high durability.

### Water Repelling Surface Treatment

The transparent liquid products protect concrete, brick, stucco, precast concrete and natural stone surfaces from the damaging effects of wind-driven rain, freeze-thaw, moisture, chloride ion intrusion and efflorescence.

TOP-SEAL / TOP-WOOD penetrates the substrate without leaving a film on the surface and allow moisture vapor to escape, while maintaining the original appearance of the substrate. Also, TOP-COVER will create a strong transparent and breathable film that will protect the surface from efflorescence and atmospheric staining.

### Surface Applied Shining Resin

TOP-SHINE is a transparent liquid that is used on surfaces like brick, stucco and stones to create a shiny surface.

### Cementitious Coating

ARMA-PROOF is a two-components sealing mortar that is seamless used to provide positive side hydrostatic pressure on concrete and masonry surfaces such as waterproofing pools, walls and floors, plaza decks, balconies, and mechanical rooms.

### Resin Coating

FLEXI-COAT is a ready-to-use and energy-saving flexible coating, designed to insulate and waterproof exterior walls. It forms a monolithic membrane that bridges hairline cracks. FLEXI-COAT has adhesion, flexibility, chemical resistant and durability.

### Bitumen Coating

SEAL-COAT is based on bitumen modified with resin and special polymers in paste form. It can be used as a waterproofing coating for variety of surfaces. It dries to a glossy black enamel-like finish and is resistant to weathering and many chemicals.

### Mortar Resin Admixture

SEALING-RESIN is a white emulsion based on modified acrylic resin. As its water absorption is very low, it is widely used in cement-based mortar coatings for waterproofing. SEALING-RESIN complies with BS-6920 standard.

### Crystalline Waterproofing

PENETRON is a crystalline waterproofing product that involves in the development of crystals to withstands negative hydrostatic pressure in concrete structures. It penetrates concrete, seals capillaries and hairline cracks.

### Extra Quick Setting Compound

QUICK-CUT instantly stops running water or leaks in concrete and masonry. It sets in less than 45 seconds, minimizing downtime. QUICK-CUT can be used in basements, foundations, sewers, manholes and lift stations leakages.





## Concrete Repair and Surface Treatment

### Repair Mortar

RM-BOND is a mortar based on cement and polymers that meets multiple application requirements such as crack and damage repairing of concrete structures. This mortar has sufficient bonding and great workability for interior, exterior, vertical surfaces and deteriorated edges. RM-BOND can be provided in decorative, high-strength and fiber-reinforced grades.

### Curing Compound

A safe and economic liquid which is used to prevent premature water loss and shrinkage cracking of fresh concrete against evaporation. It complies with ASTM C 1315, Type I, Class B standard.

### Concrete Form Release Agent

The easy separation of concrete from the forms or form liners ensure worry-free removal of formwork without surface damage. The release agent enhances the appearance of the precast, prestressed, and cast-in-place concrete.



## Connecting and Anchoring

### Cementitious Grouts

ARMA GROUT is specifically engineered to be highly fluid, non-bleed, non-shrink with extended compressive strength up to 75 Mpa. It is recommended for void and duct grouting of precision machinery and element alignment such as base plates and anchor bolts.



### Epoxy Grouts

ARMA POX offers outstanding properties such as zero shrinkage and high resistance to chemicals with extended compressive strength up to 100 Mpa. It is recommended for applications such as rotating equipment, crucial machinery and high-early strengths grouting.

### Self-leveling floor underlayment

Self-leveling underlayment is a poured-in-place cementitious or epoxy-based mortar which is used to level surfaces under carpeting, tile, linoleum and hardwood floors. It is also recommended for leveling rough or rain-damaged concrete floors.



### Rebar anchoring paste

ARMA-FIX is a paste based on epoxy resin combined with fillers to anchor steel rebars in concrete. It has high flexural strength and bonding.



## Construction Adhesives and Sealant

### Concrete Adhesive

Concrete adhesives improve adhesion of cement mortars, widely used in concrete repairing and waterproof linings.

### Tile Adhesive

HIRKAN-FIX is a Ready-to-use tile adhesive paste or powder with strong adhesion,



### Tile Joint Fillers

VARKAN is a ready-to-use tile joint paste or powder with strong bonding and flexibility. It is produced in variety of colors and limited shrinkage.





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#### ◆ **Joint Sealant**

Tough, chemical and water-resistant sealant used in vertical and horizontal contraction and expansion joints. MASTICS are divided in to cold applied and hot applied sealants based on polyurethane, polymeric resins, bitumen and modified additives.

### **Pavement Systems**

#### ◆ **Latex Modified Concrete (LMC)**

Addition of Latex (LATEX-MIX) to conventional unmodified concrete reduces the amount of water required to achieve the appropriate viscosity for placement of the mix. This lower water requirement results in a cured concrete with a higher compressive strength. The latex forms elastic membranes throughout the matrix of concrete, reducing the formation of voids and hairline cracks during the curing stage. The LMC resists penetration of oil, water, salts and aids in the adhesion of new concrete to old. The flexural strength is improved, and there is increased abrasion resistance.

#### ◆ **Silica Fume Concrete (SFC) / Micro Silica Concrete (MSC)**

Addition of Silica Fume (Micro Silica) and other additives such as water reducers and reinforcing fibers (SFC-MIX, MSC-MIX) in the pavement concrete will improve the compressive strength, flexural strength and lower the permeability of the concrete to water and chloride ions. The use of SFC / MSC as a pavement or an overlay is recommended for bridge deck overlay and highways.

#### ◆ **Industrial Floorings**

Cementitious and Resinous flooring has been the solution to industrial flooring challenges. Their benefits include: (1) long-term toughness and durability in extreme industrial environments, (2) unequalled resistance to physical abuse, thermal shock, bacteria growth and aggressive chemicals, (3) Strong impact and abrasion resistance for increased protection in heavy traffic areas, (4) uniform, seamless flooring system for enhanced aesthetic, performance and hygiene, (5) formulated specially for use in harsh environment such as food and beverage facilities, commercial kitchens, pharmaceutical plants and heavy industrial and chemical operations.

Industrial flooring systems include: TOP-CEMENT, HARD-CEMENT, EPOXY, POLYURETHANE, POLYUREA

#### ◆ **Industrial Coatings**

Protective coatings and industrial paints are based on acrylic or epoxy resins and polymers. Industrial coatings can be used on concrete and steel structures. They provide dust free and exposed surfaces with chemical and abrasion resistance.

Industrial Coatings include: BITU-COAT, POLYUREA, ACRYLIC PAINTS, THERMAL INSULATION COATINGS

#### ◆ **Anti-Acid Systems**

Anti-acid systems are protective coatings that are corrosion resistant to acids, alkalis, and solvents concentrated in sumps, reservoirs and battery rooms. Anti-acid systems include: SYNTHETIC RESIN COATINGS, CERAMIC LININGS, ROBBER LININGS, THERMOPLASTIC SYSTEMS, and MORTARS.



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## Structural Insulated Panels



Styrene Poly-Crete (SPC) panels are a system of wall components optimized to be high-quality, strong and energy efficient. The panels are manufactured to spec prior to construction, minimizing waste and construction time.

SPCs allow our buildings to be as sustainable as possible while minimizing cost. Chimisazeh utilizes the fine tolerances of factory manufacturing to produce Panelized Insulation with minimal gaps. This maximizes the effective insulation to something that is far greater than traditional wall systems.

SPCs have polymer modified and fiber reinforced concrete cladding.

This lightweight cladding system is designed to be high performance, efficient, cost effective, sustainable and safe. SPC panels are fire, water, shock, and UV resistant making it a safe, clean and long-lasting material.

SPCs are recommended for industrial sites, Sport Complexes, Commercial Buildings and

