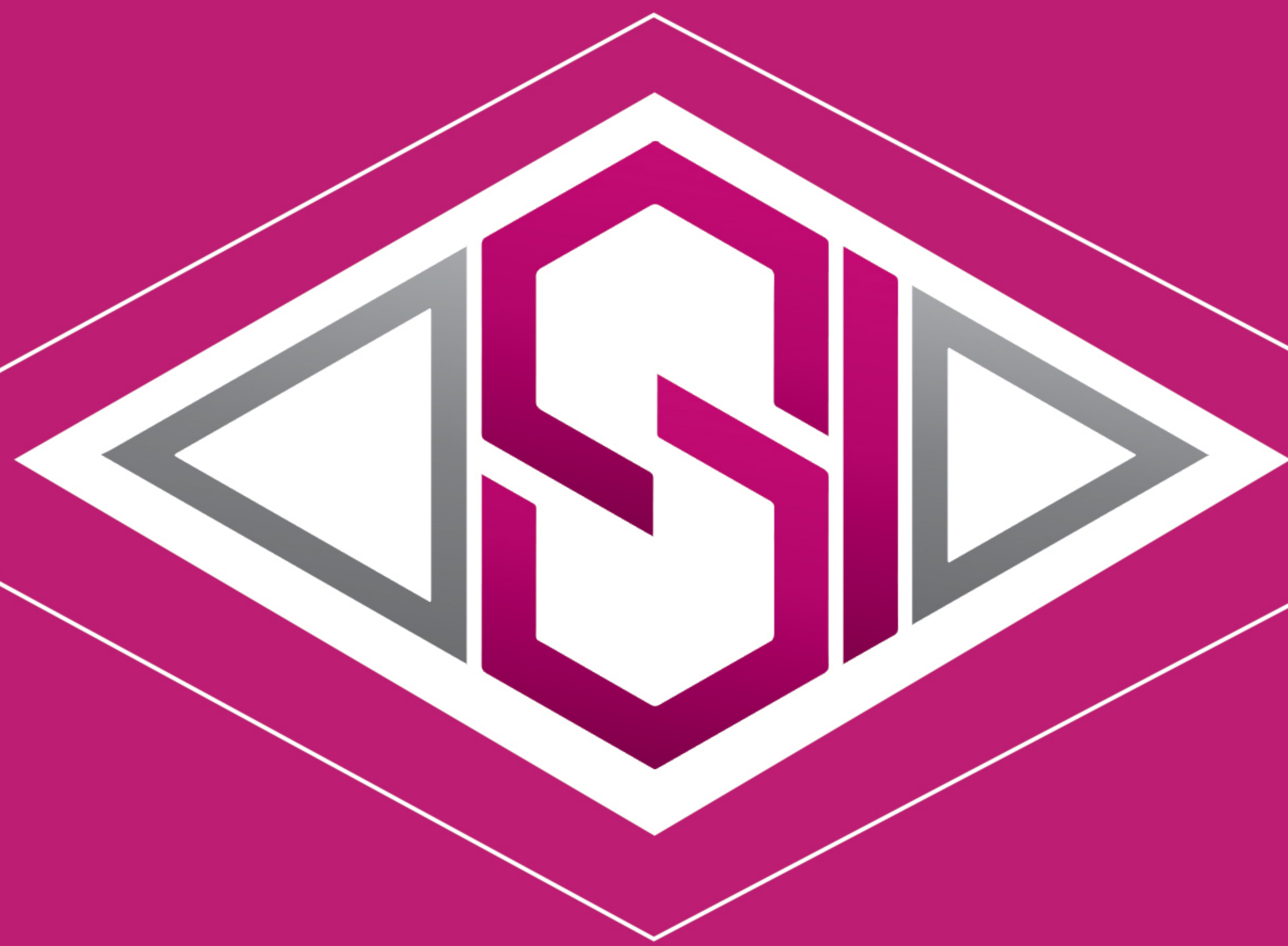




Couple Shimi Sepahan Knowledge Enterprise

Couple Shimi Sepahan is the first and most specialized producer of various silicate and silicone compounds in Iran.



Couple Shimi Sepahan



The knowledge enterprise, Couple Shimi Sepahan, started its activities in 2013 with the goal of producing silicate- and silicone-based chemicals and addressing the gap in domestic production of these materials in the country. For the first time in the country, this company initiated the production of silane coupling agents and silicate compounds utilizing a group of academic elites. These products are used in the paint and coating industry, marine and industrial coatings, adhesives, polymers, and composites. Since 2015, the research and development department of the company has expanded its product portfolio and, as the first and most specialized unit producing various silicate and silicone compounds in Iran, offers its products under the brand name @COUPSYL, derived from the company's name and the type of its products (silicate and silicone-based products).

Vision

The vision of Couple Shimi Sepahan is based on continuously improving quality and expanding the product portfolio to meet market demands, thereby reducing the country's dependence on imports. As a knowledge enterprise, it aims to play a small yet significant role in the growth and development of the country and to fulfill its social responsibilities in the best possible way.



COUPSYL Lithium-based Liquid Hardeners for Concrete Surfaces



One category of products manufactured by the Couple Shimi Sepahan knowledge enterprise are concrete surface liquid hardeners under the COUPSYL brand. These products are used in a specific process called glazing or polished concrete to improve the properties of concrete flooring. Glazing or making concrete floors glossy is done using COUPSYL lithium-based concrete hardeners in liquid form, along with concrete grinding and polishing operations. This process enhances the abrasion resistance, impermeability, gloss, and light reflection of various types of concrete floors, including mosaic, dry-shake hardened concrete, and mortar-based hardened concrete. COUPSYL lithium-based hardeners easily penetrate the surface of concrete without forming any layer or increasing thickness. By reacting with the surface, they significantly increase the abrasion resistance and reduce the permeability of water and oil due to the densification of the concrete's structure.

This category includes five products marketed under the names: concrete surface hardening liquid, concrete surface densifying liquid sealer, silicone expansion joint mastics for concrete, and a special concrete surface grinding repair liquid.

The concrete surface densifying liquid is a transparent, fully mineral product that penetrates deeply into the structure of cement and concrete surfaces, blocking pores and capillaries, and prevents the penetration of water and oil into the cement and concrete surfaces.

The concrete surface hardening liquid is a lithium silicate-based product that enhances the gloss, dust repellency, and impermeability of concrete surfaces.

The special surface grinding repair liquid is a milky-colored liquid used for repairing and restoring concrete floors during surface grinding, which helps polish and shine concrete floors while maintaining color uniformity.

Concrete Sealer is used to increase impermeability, gloss, and sealing properties, and to make surfaces more dust-proof. It is suitable for various types of concrete surfaces such as concrete floors and decorative concrete floors, among others.





Concrete Surface Hardening Liquid



Concrete Surface Densifying Liquid



Concrete Sealer



Special Surface Grinding Repair Liquid



Expansion Joint Mastic

Expansion Joint Mastic is silicone-based and, due to its highly advanced and refined formulation, provides exceptional adhesion to various surfaces. This product has high elasticity and resistance to acids and alkalis.

The mastic is available in three colors: white, gray, and black, and is offered to the market.



Scan for more information



COUPSYL Nano-Hydrophobic Building Coats

The nano-Hydrophobic products of Couple Shimi Sepahan, under the COUPSYL brand, are used for waterproofing various types of wooden, metal, and glass building surfaces. These products are available in both water-based and solvent-based forms.

COUPSYL®SWRS Silane Siloxane Nano-Hydrophobic: This solvent-based and colorless product is based on silane siloxane and is used in liquid form to waterproof wood and various building surfaces, including glass, by creating a chemical bond.

COUPSYL®WRS Silicone-Based Nano-Hydrophobic: In addition to its easy-to-clean properties, this product penetrates building surfaces and can prevent water absorption and the formation of efflorescence (white stains) on different facades. This product is also certified by the Nanotechnology Development Headquarters of the Vice Presidency for Science and Technology of the Islamic Republic of Iran.

COUPSYL®WLS Nano Wet Brick: This product is a hydrophobic nano-coating for dark-colored brick surfaces, which gives the brick a water-repellent property. Additionally, it enhances the color of the facade, giving the appearance of wet brick.



**Silicone-Based
Nano-Hydrophobic Solution.**

COUPCOAT®NAC Nano Acrylic Coating: A glossy hydrophobic coating with nano-technology for various building surfaces. It is produced based on acrylic resins in both water-based and solvent-based forms. This product would not get into yellow color and is cleaned in a very easy way.

COUPCLEAN®ECS Building Facade Efflorescence Remover Solution: The efflorescence remover solution is a cleaning agent designed to remove efflorescence from various building surfaces. It is highly effective in eliminating sulfate and carbonate efflorescence, particularly from brick surfaces.



**Silane Siloxane
Nano-Hydrophobic Solution**



Nano Acrylic Coating





Nano Wet Brick Coating



Efflorescence Remover Solution

Scan for more information



CoupColor Acid-Stained Reactive Concrete Dye

Acid-stain dyes are liquid-based and specifically designed for coloring cement and concrete surfaces. These dyes penetrate the concrete structure and react with the calcium present in the surface, causing the cement and concrete to become colored. The intensity and color range depend on the type and quality of the concrete surface and the cement content. Acid-stain dyes can only be applied to fully cured cement and concrete surfaces and cannot be added to wet cement mortar or concrete paste.

ANP Neutralizing Powder

ANP neutralizing powder is used to neutralize excess or unreacted acid-stain dye from cement and concrete surfaces after these surfaces have been colored with acid-stain liquid reactive dyes. Neutralization of cement and concrete surfaces colored with acid-stain dyes must be done after a sufficient time has passed to allow proper reaction between the dye and the target cement or concrete surface.

Applications of Acid-Stain Dyes

- Coloring various cement and concrete surfaces
- Creating different designs on concrete surfaces
- Coloring concrete products
- Creating decorative concrete floors
- Coloring cement fountains





Acid-Stain Neutralizing Powder



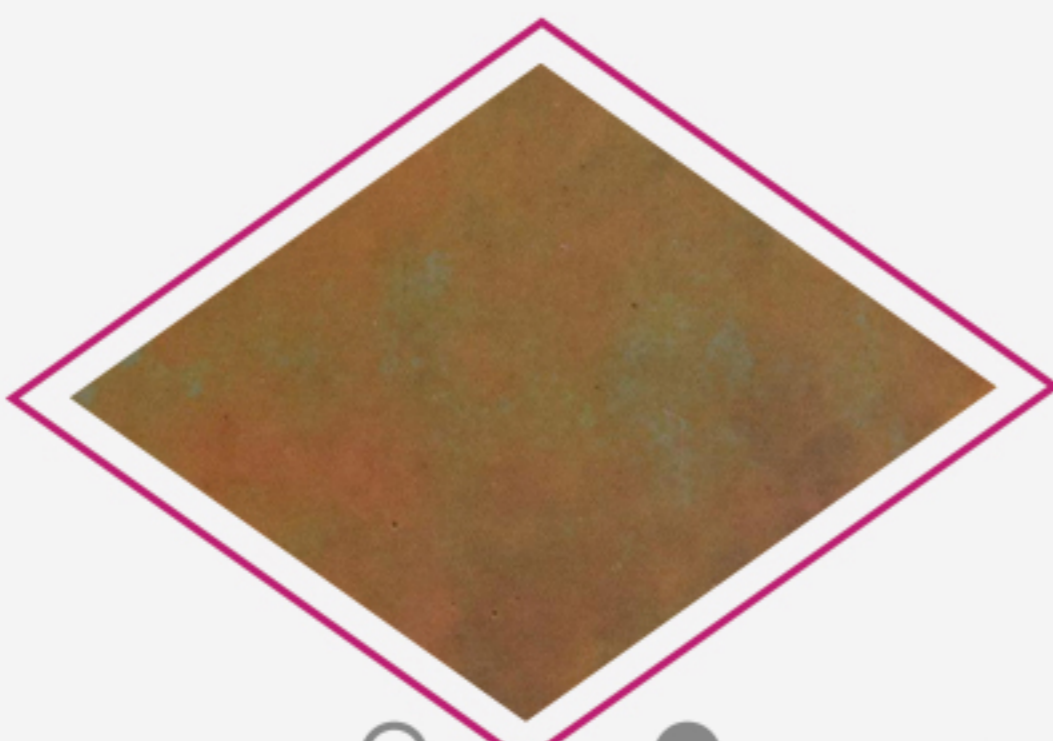
Reactive Concrete Acid-Stain Dye

Couple Shimi Sepahan produces reactive concrete dyes, known as acid-stain liquid dyes for cement and concrete, in 10 different color codes, offering them to the market. The wide range of colors in acid-stain dyes allows for the creation of decorative surfaces with diverse and beautiful colors, ensuring that users experience a stunning and aesthetically pleasing result without concerns over the beauty and color of concrete surfaces.

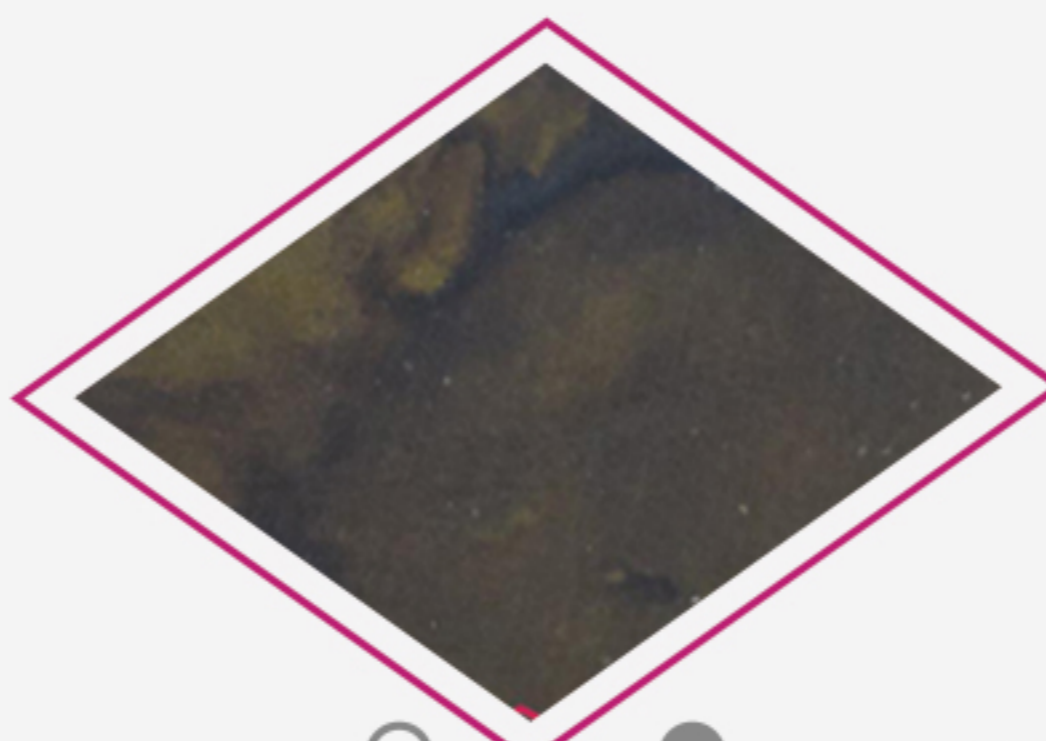
Color Options



Marble Green



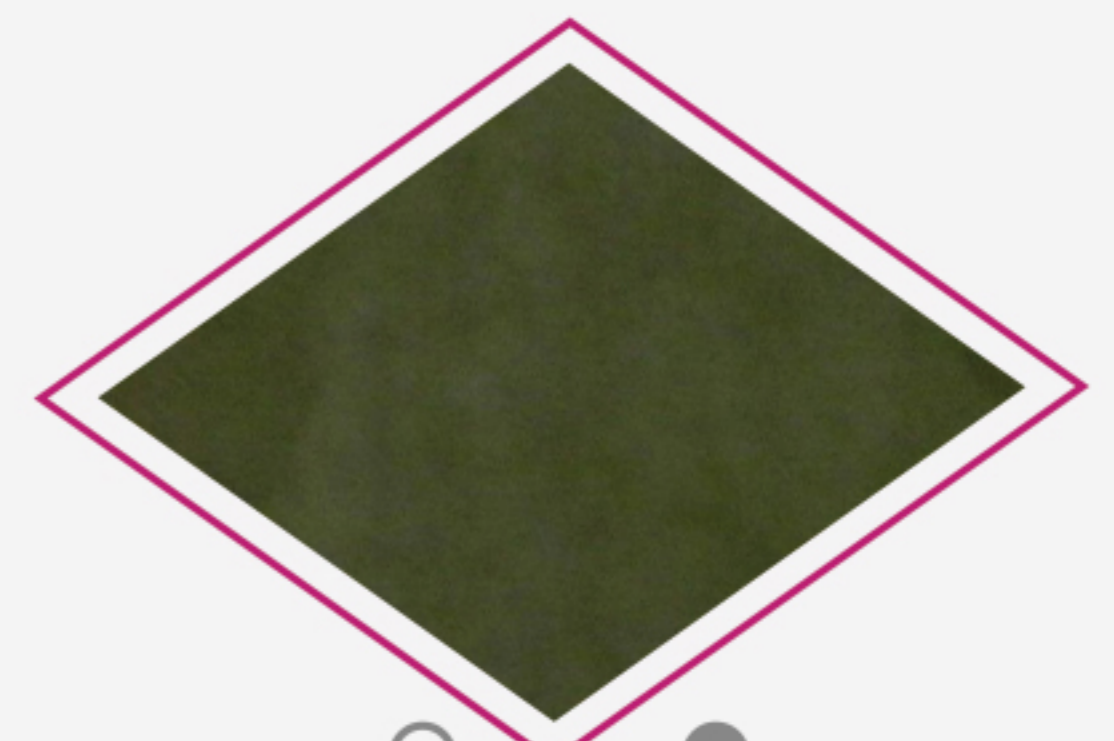
Verdigris Green



Granite Green



Leather Brown



Olive Green



Autumn Red



Hazelnut Brown



Agate Brown



Black



Turquoise



Scan for more information



COUPSYL Silane Coupling Agents

Ethyl Silicate 40

Ethyl Silicate 40 is a mixture of tetraethyl orthosilicate and ethyl polysilicate, which can be used as a source of finely divided silica. This material is utilized as a solvent for silicone resins and adhesives, in sol-gel production, pure SiO₂ powder production, silica foam production, and in the manufacturing of corrosion-resistant and heat-resistant paints, especially in the marine and oil & gas industries.

Tetraethyl Orthosilicate

This material is a flammable, colorless liquid with a medium boiling point and low viscosity. It has a strong and very toxic odor and is used as a silane coupling agent. This product dissolves in alcohols and most common solvents. Upon contact with moisture, it quickly hydrolyzes and degrades. This material has a strong odor similar to ethanol and is used in many industries, from pharmaceuticals and personal care to petrochemicals. This product is utilized for the production of silica aerogels, catalyst manufacturing, and the production of silica nanoparticles.





Tetramethyl Orthosilicate



Tetraethyl Orthosilicate



Ethyl Silicate 40

Tetramethyl Orthosilicate

This material is a flammable, colorless liquid with a medium boiling point and low viscosity. It has a strong and very toxic odor and is used as a silane coupling agent. This product dissolves in alcohols and most common solvents. Upon contact with moisture, it hydrolyzes into SiO₂ powder and methanol alcohol. This product is used for producing fumed silica (Aerosil) and for the production of silica nanoparticles.



Scan for more information



COUPCRETE Adhesives and Insulation Products

Tile and Ceramic Joint Sealant: This sealant is suitable for grouting the joints of kitchen floors and bathrooms, preventing water from penetrating between the tiles and joints into other floors.

Two-Component Polymer Cement Insulation: This product, known as an alternative to bitumen insulation, has high adhesion properties, excellent resistance to UV radiation, and durability against temperature changes and continuous rainfall. It is used for waterproofing and insulating tanks, pools, ponds, and fountains.

Two-Component Repair Putty: This putty is suitable for repairing old concrete, columns, concrete bases, and filling and repairing any type of concrete surface. It has good compressive and tensile strength and can be applied on various surfaces.

Tile and Ceramic Adhesive: This product comes in powder form and contains cement and mineral fillers, with its formula enhanced by polymer additives for improved adhesion. It is used for installing porcelain tiles and ceramics and also for repairing and restoring concrete and cement surfaces.



Tile and Ceramic Joint Sealant

Acrylic Waterproofing Insulation: This product, commonly referred to as "White Roof Insulation" is a waterproof coating made from elastomeric and acrylic polymer materials, produced in water-based form. This makes it highly environmentally friendly. It is used for waterproofing roofs, rain-exposed facades, and other building surfaces that require moisture protection.

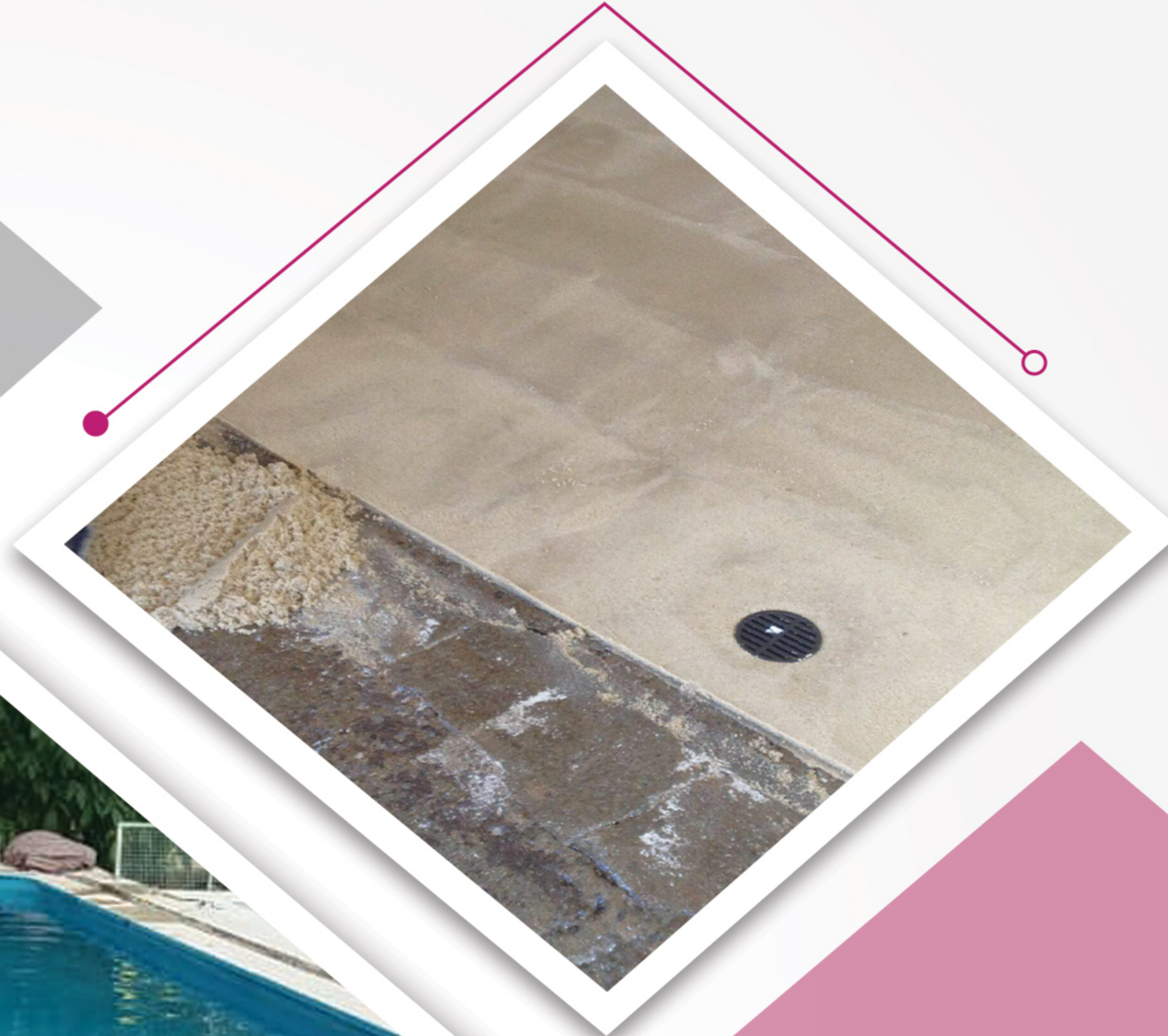


Tile and Ceramic Adhesive



Two-Component Repair Putty





Two-Component Polymer Cement Insulation



Acrylic Water proofing Insulation

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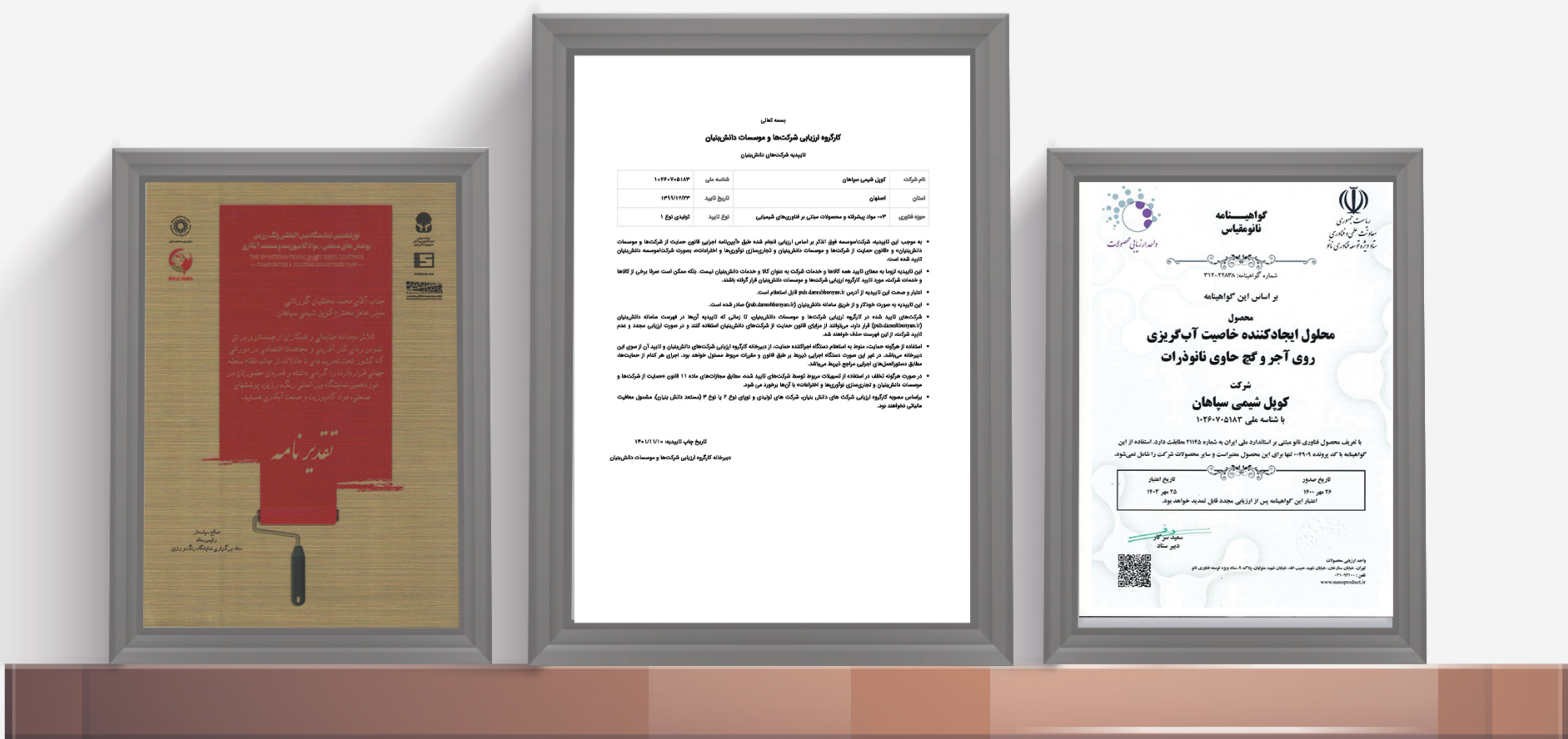


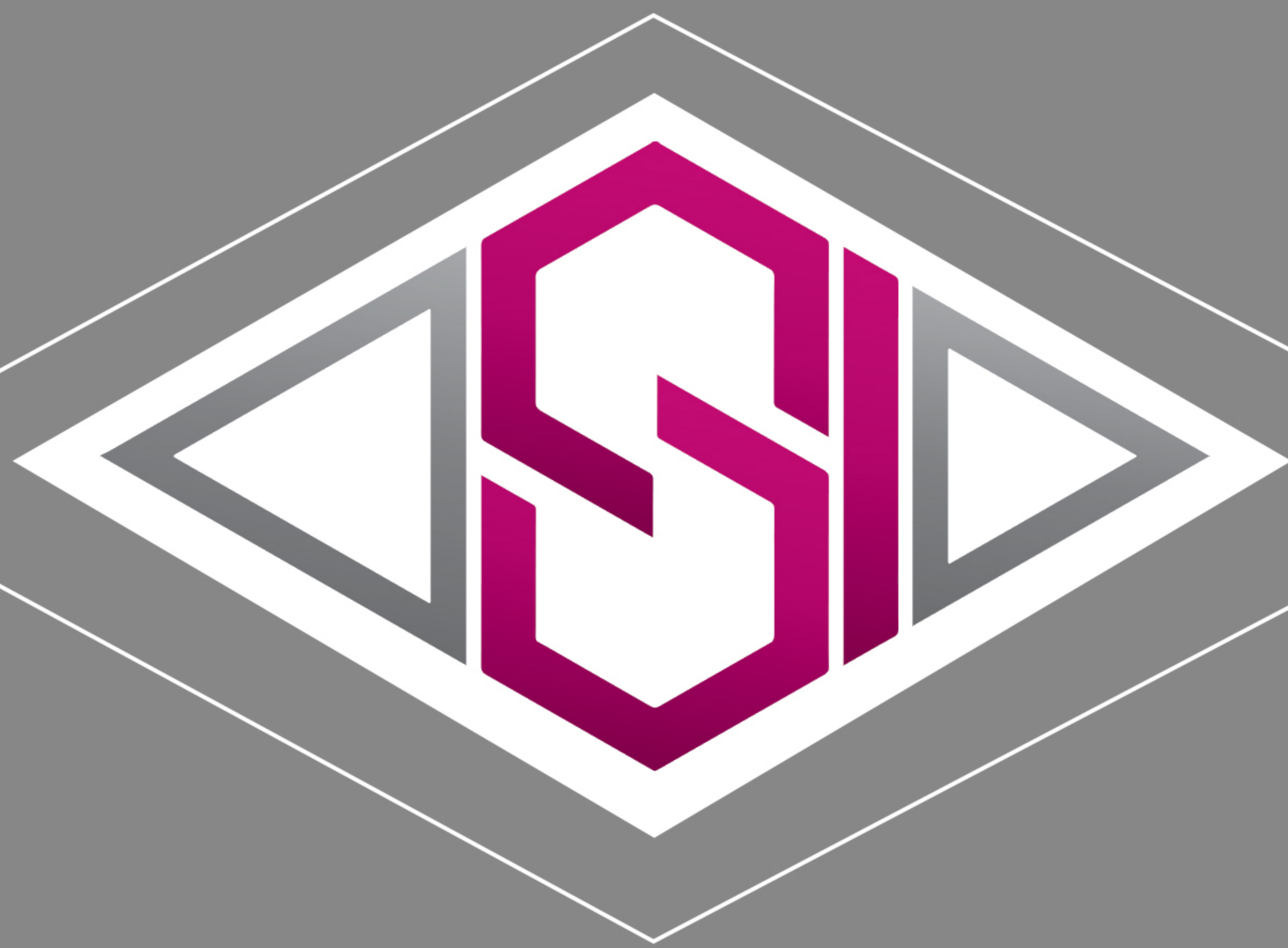
Brand's Mission:

The Couple Shimi Knowledge Enterprise is committed to produce and supply high quality silicone- and silicate-based products based on the state-of-the-art knowledge and innovation for different industries. By providing unparalleled customer service and focusing on social responsibility, we are moving towards becoming a leading and reliable brand at the national and international level, and the growth and prosperity of our human resources with training and creating a dynamic environment are valuable to us.

We will continue this path and mission until we become the specialized authority of silicon and silicate material production technology in Iran and lead the market of our beloved country.

Certificates:





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