Alvan Fam

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Alvan Fam Setareh Khorasan Company, relying on the experience of its senior managers in the paint industry and employing skilled personnel, has commenced its activities in the production of industrial paints, architectural/building paints, traffic paints, and various anticorrosive coatings.

With the aim of achieving customer satisfaction, improving product quality, and enhancing service safety, the company has established an R&D department and obtained an official Research and Development license from the Ministry of Industry, Mine and Trade (MIMT), focusing on the production of innovative and knowledge-based products.

Alvan Fam Setareh Khorasan Company has two subsidiaries named Yekta Sanat Pooshesh and Atin Sanat Paydar.

These companies produce knowledge-based products in the field of anticorrosive coatings and hold contractor licenses in the road, oil and gas industries. Their activities include the production of specialized products as well as execution of all contracting services such as road maintenance and construction, application of traffic paints and adhesives, and anticorrosion coating works in various oil, gas, petrochemical, steel, and copper industries.

In line with achieving its long-term objectives, expanding target markets, and producing export-oriented products with global quality, Alvan Fam Setareh Khorasan has implemented comprehensive quality management systems based on the following standards:

- ISO 9001:2015
- ISO 14001:2015

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Industrial Paint for Steel Structures

“Steel structure paint” (commonly known as Shed Paint) is a type of protective coating that is generally used as an anti-corrosion primer for steel structures. These paints are formulated using pigments such as zinc, zinc chromate, zinc phosphate, as well as other anti-corrosion pigments like polyurethane-based systems.
This coating is widely used for painting surfaces in many buildings, facilities, and industrial or semi-industrial environments because it protects surfaces against direct sunlight and rain.

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POLYAMIDE EPOXY COATINGS

Epoxy Zinc-Rich Primer — Grade 1

Epoxy zinc-rich primer is a two-component coating based on polyamide-cured epoxy resin. This primer is designed in accordance with SSPC PAINT 20 – LEVEL 1 and, on this basis, contains a minimum of 85% zinc powder in the dry film.
In addition to excellent anti-corrosion properties, this primer also exhibits very good resistance against atmospheric conditions and humidity.

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POLYAMIDE EPOXY COATINGS

Epoxy Zinc-Rich Primer — Grade 2

This product is a two-component coating based on polyamide-cured epoxy resin. In this primer, the high amount of zinc powder creates mechanical interlocking between zinc particles, providing cathodic protection for steel structures.
It is used in corrosive atmospheric environments to protect steel structures and to provide high resistance against water, humidity, and abrasion. When followed by a suitable epoxy intermediate coat and epoxy topcoat, it becomes resistant to water, solvents, chemicals, and petroleum products. However, it is not suitable on its own for full immersion in acidic or alkaline solutions.
This primer is designed in accordance with SSPC PAINT 20 – LEVEL 2 and, on this basis, contains a minimum of 77% zinc powder in the dry film. In addition to its excellent anti-corrosion properties, it also has very good resistance to atmospheric conditions and moisture.

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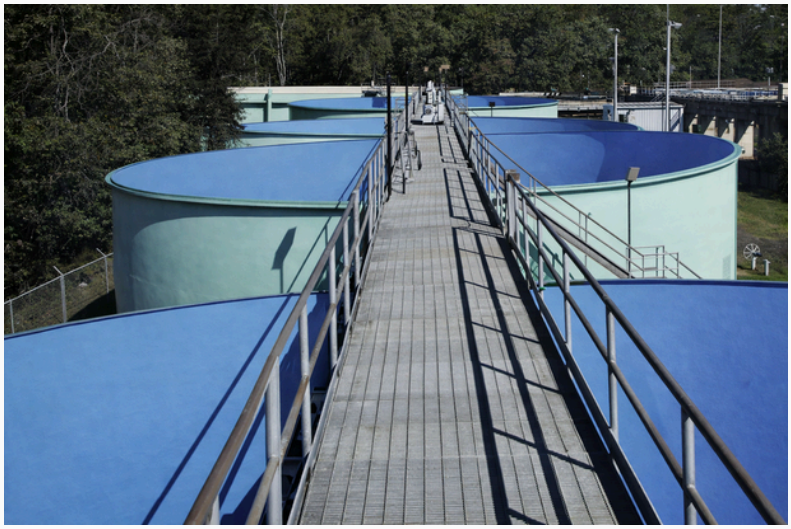
POLYAMIDE EPOXY COATINGS– HIGH PERFORMANCE COATING

Epoxy Zinc-Rich Primer — Grade 3

This product is a two-component coating based on polyamide-cured epoxy resin. In this primer, the high content of zinc powder creates mechanical interlocking between the zinc particles and provides cathodic protection for steel structures.
It is used in corrosive atmospheric environments to protect steel structures and to provide high resistance to water, moisture, and abrasion. When followed by a suitable epoxy intermediate coat and epoxy topcoat, it becomes resistant to water, solvents, chemicals, and petroleum products. However, it is not suitable on its own for full immersion in acidic or alkaline solutions.
This primer is designed in accordance with SSPC PAINT 20 – LEVEL 3 and, on this basis, contains a minimum of 65% zinc powder in the dry film. In addition to its excellent anti-corrosion properties, it also offers very good resistance to atmospheric conditions and humidity.



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Two-Component Ethyl Silicate Primer

This product is a fast-curing, two-component primer based on ethyl silicate that meets protective requirements according to ISO 12944 and SSPC PAINT 20 – LEVEL 2. It is used as the first coat in multi-layer coating systems, as well as a single-coat protection system for long-term protection of steel structures in environments with medium to severe corrosivity. This product demonstrates excellent performance against weathering conditions, moisture, and elevated temperatures up to 400 °C.

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Corrosion-Resistant Products

1. Repair Mortars

Repair mortars are, in fact, two-component composite coatings based on epoxy resin reinforced with ferro-silicon particles, metallic powders such as aluminum and bronze, ceramic particles, etc. After full curing, they can be easily machined. Some of these mortars have very high chemical resistance and can be used under immersion conditions up to 150 °C. These repair mortars are used for maintenance and refurbishment of various machinery and equipment in different industries. These coatings include the following products:

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Corrosion-Resistant Products

1. Repair Mortars – 1-1. Supermetal 1011 AYA Metal Repair Coating

A two-component solvent-free adhesive based on epoxy resin reinforced with ferro-silicon, used for repair and refurbishment of various machinery and equipment. After full curing, the adhesive can be easily machined.

Technical Characteristics:

- Excellent abrasion resistance
- Suitable thermal and chemical resistance
- Electrical insulation properties
- High mechanical strength

Applications:

- Repair of shafts and hydraulic cylinders
- Repair of casing pipes
- Repair of industrial equipment housings, bearing seats, and keyways
- Repair of metal pipes and tanks
- Repair of engine housings and components
- Repair of metal flange surfaces

Mechanical Specifications Table

Test	Test method	result
Pot life	----	15-35 min
hardness	ASTM D 2240	85
LSS	ASTM D 1200	19 (metal – metal)
Pull off	ASTM D 4541	Min 20
Tg	ASTM D 3418	120
HDT	ASTM D 648	48

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Corrosion–Resistant Products

1. Repair Mortars – 1–2. Supermetal 1012 AYA Metal Repair Compound

This is a two-component, fast-curing adhesive that gels within 3 minutes and reaches half of its final strength approximately 15 minutes after mixing. The fast-curing epoxy adhesive can be used for quick and emergency repairs of tanks, vessels, pipes, machinery, concrete parts, and bonding various components. It is an all-purpose adhesive suitable for leak-sealing and urgent maintenance operations. This adhesive can be applied even at low temperatures (down to -5 °C).

Technical Characteristics

Applications:

- Repair of water and oil leaks
- Sealing and leak-stopping of joints and flanges
- Repair of cracks and cavities in engines, pump casings, transformers, pipelines, tanks, etc.
- Repair of damaged and perforated metal surfaces
- Excellent adhesion to metals
- Manufacturing of seals for bearings, bushings, and other components

Mechanical Specifications Table

Test method		
Test	Test method	result
Pot Life	----	5 min
Hardness	ASTM D 2240	80
LSS	ASTM D 1200	15 (metal – metal)
Pull off	ASTM D 4541	Min 20 Mpa
TG	ASTM D 3418	55 °C
HDT	ASTM D 648	48 °C

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Corrosion-Resistant Products

1. Repair Mortars – 1-3. 1016 AYA Underwater-Curable and Machinable Coating

This material is a two-component repair composite used for the repair and refurbishment of metallic surfaces. The product benefits from a special formulation that allows it to be used on contaminated, wet, and oily surfaces and is designed for underwater applications according to mechanical specification requirements.

Applications

- Bonding plates, filling cavities and corrosion-induced holes
- In-situ repair of wet, sweating, or oil-containing pipes where grit blasting is not feasible
- Online sealing of leaks in oil and liquid storage tanks, engines, gearboxes, transformers, and wastewater tanks
- Long-term repair and refurbishment of marine structures and equipment including ship hulls, rudders, and propellers
- Underwater and marine repairs; ideal for coastal infrastructure and offshore structures

Mechanical Specifications Table

Test	Test method	result
Pot Life	ASTM D 2471	20 min
Hardness	ASTM D 2240	80
LSS	ASTM D 1200	18 (metal — metal)
Pull off	ASTM D 4541	Min 20 Mpa
TG	ASTM D 3418	55 °C
HDT	ASTM D 648	46 °C

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Corrosion–Resistant Products

1. Repair Mortars – 1–4. AYA 1511 Repair Mortar — Immersion Service up to 140 °C

AYA 1511 is a two-component adhesive and repair compound designed for the refurbishment and rebuilding of various machines and industrial equipment. This product is comparable to Belzona 1511 and is based on high-molecular-weight epoxy resins reinforced with silicon-alloyed steel. After full curing, the material can be easily machined and is suitable for continuous immersion in water–hydrocarbon mixtures up to 140 °C.
Applications:

- Repair compound for tanks, distillation columns, heat exchangers, clarifiers, and scrubber units
- Corrosion protection for high-temperature equipment such as boilers, heat exchangers, and condensers
- High-temperature epoxy coating for oil & gas production equipment, including separators, flare knockout drums, and evaporators operating under immersion conditions
- Chemical and corrosion protection for high-temperature service in equipment such as boilers, condensers, and heat exchangers
- High-temperature protective coating systems

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Corrosion-Resistant Products

1. Repair Mortars – 1-4. AYA 1511 Repair Mortar — Immersion Service up to 140 °C

Mechanical Specifications Table

Test	Test method	result
Pot Life	ASTM D 2471	20 min
Hardness	ASTM D 2240	80
LSS	ASTM D 1200	18 (metal – metal)
Pull off	ASTM D 4541	Min 20 Mpa
TG	ASTM D 3418	55 °C
HDT	ASTM D 648	46 °C

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Corrosion-Resistant Products

2 . Anti-Corrosion Coatings

Advanced polymeric high-tech coatings offer unique anti-corrosive properties based on the latest European technologies. They can be applied, put into service, and repaired much more easily than conventional systems, using brush or spray.
AYA 2117 (bionic-technology based) is a high-performance coating that exhibits excellent mechanical strength, strong chemical resistance, and outstanding anti-corrosion properties. Owing to its excellent adhesion to substrates, coating AYA 2117 does not require a primer during installation and delivers significantly higher mechanical performance as a single-layer system compared with conventional multi-layer systems using primers. While maintaining exceptional corrosion resistance against a wide range of liquid and gaseous chemicals, it ensures reliable long-term protection of structures.

Technical characteristics:

- Very high abrasion, compressive, and impact resistance compared with alternative coatings
- Shelf life of more than 36 months
- Easy to repair; also suitable for repairing other linings such as rubber lining and glass lining
- Significantly longer service life than conventional anti-corrosion coatings
- Single-layer, solvent-free system
- A definitive solution for protecting metallic and concrete surfaces under severe chemical and thermal exposure
- Innovative post-curing mechanism activated at service temperature, reducing downtime — no separate post-cure required

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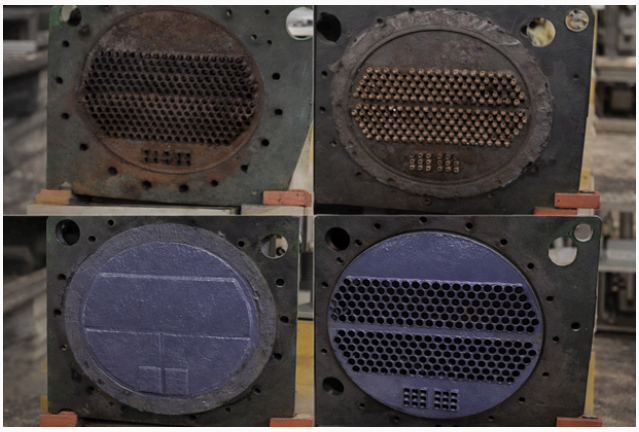
Corrosion-Resistant Products

2 . Anti-Corrosion Coatings

- Exceptional chemical resistance under highly aggressive conditions, including:

Amines



- Monoethanolamine (MEA)
- Diethanolamine (DEA)
- Methyldiethanolamine (MDEA)
- Diglycolamine (DGA)
- Adipic-based amines
- Spent amines rich in H_2S / CO_2

Acids

- 37% Hydrochloric Acid (HCl)
- 98% Sulfuric Acid (H_2SO_4)
- 50% Nitric Acid (HNO_3)
- 100% Glacial Acetic Acid (CH_3COOH)

Solvents & Chemicals

- Carbon disulfide (CS_2)
- Methylene chloride (dichloromethane), vinyl chloride, benzyl chloride
- Methanol, ethanol and derivatives
- Molten sulfur and acidic vapors
- MEK, toluene, xylene, acetone, ammonia
- Sodium hypochlorite, sodium perchlorate

Alkalis

- 50–75% Sodium hydroxide (NaOH)

Glycols

- Monoethylene glycol (MEG) and triethylene glycol (TEG) at all concentrations

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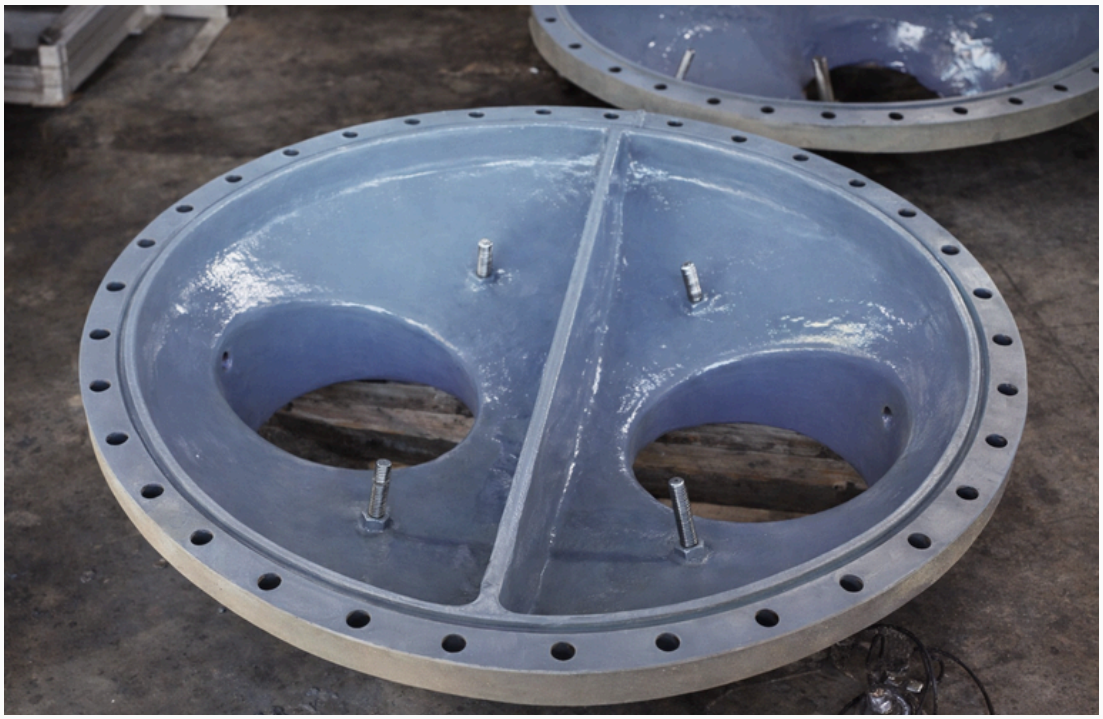
Corrosion-Resistant Products

2 . Anti-Corrosion Coatings

The coating reaches maximum cure within specified conditions and is available both as a repair mortar and sprayable coating. The matrix can also be supplied reinforced with glass flakes where enhanced barrier properties are required.

Mechanical Specifications Table

Technical data	
Solid content	100%
Impact resistance	ASTM G14 Forward : 15 joules Reverse: 5 joules
Maximum dry film thickness (dft)	4200 microns 4200 microns
Density	1.8 gms/cm^3(base+hardener)
Adhesive strength	ASTM D4541 minimum 25 Mpa



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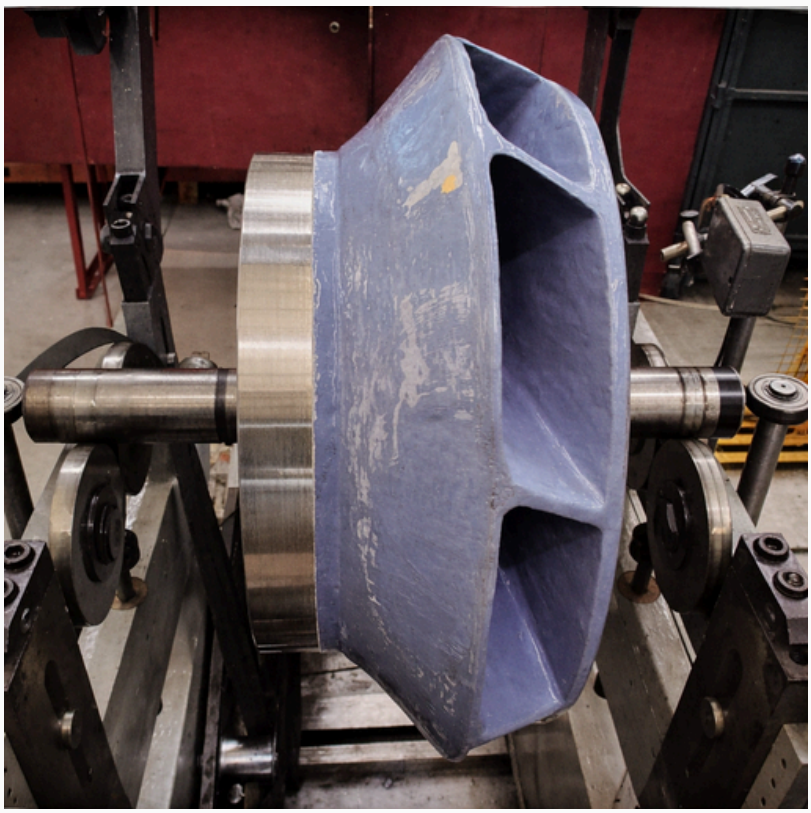
1392-AYA — Ceramic-Filled Epoxy Anti-Corrosion Coating

A two-component, high-temperature coating system that is resistant to water, aqueous solutions, and hydrocarbons up to 248°F (120°C). It is specifically designed to provide corrosion protection in acid-contaminated hydrocarbon/water systems, and can be used both for original equipment application (OEM) and repair/maintenance situations.
Applications
When the product is mixed and applied in accordance with the instructions, the system is ideally suited for use on:

- Oil–gas and oil–water separators
- Condensate extraction pumps
- Heat-exchanger shells and barrels
- Scrubber units
- Condensate return tanks
- Autoclaves
- Evaporators
- Distillation units



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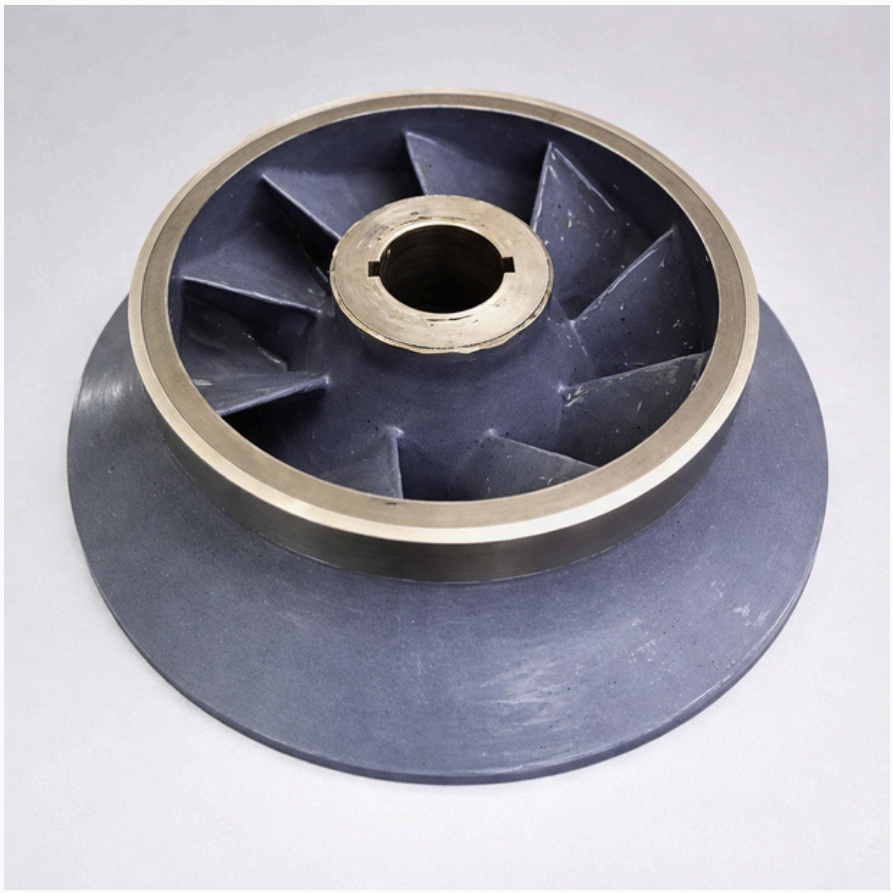
Abrasive-Resistant Epoxy Adhesive EROX-1811

This product is a two-component epoxy adhesive designed for the repair and protection of surfaces exposed to abrasive attack. It is based on high-molecular-weight polymers and oligomers, reinforced with abrasion-resistant ceramic aggregates. The material can be applied in thicknesses from 0.25 inch up to virtually unlimited thickness on horizontal or vertical surfaces.

Applications:

- Elbows of pipelines
- Chutes and hoppers
- Deflector screens
- Wear plates
- Centrifuges
- Mixer bowls



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Epoxy Adhesive for Bonding Fiberglass Pipes 2111-AYA

This product is a two-component epoxy adhesive based on epoxy resin and aromatic polyamine hardeners, designed for tapered bonding of composite GRE and GRP pipes and fittings. Owing to its special formulation, the adhesive exhibits excellent chemical resistance against aromatic solvents and acids, making it a highly suitable choice for petroleum-based media.
Before the pipeline is pressure-tested or put into service, this adhesive requires thermal curing. Thermal curing increases the cross-link density of the adhesive, which in turn enhances its chemical resistance, shear strength, and temperature resistance. The adhesive is suitable for service temperatures up to 150 °C.

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Epoxy Adhesive for Bonding Fiberglass Pipes 2112-AYA

This product is a two-component paste adhesive that cures at ambient temperature and provides elastic bonding. The adhesive is completely thixotropic, non-sag, and can be applied in thicknesses up to 10 mm. Its main application is bonding SMC and GRP components.

Epoxy Primer for Composite-to-Concrete and Metal Bonding 3111-AYA

This product is a two-component epoxy primer used to bond composite plastics to concrete and steel structures.

Applications

This primer exhibits very high adhesion and excellent resistance in chemically aggressive environments. It can be applied by spray or roller.

- Suitable for high-temperature areas
- Suitable for heavy abrasion and impact conditions
- Applicable as a primer for concrete liners
- Suitable for stainless steel, galvanized steel, and aluminum
- Suitable for composite substrates
- Excellent adhesion to various substrates
- High bond strength even to damp concrete

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Introduction and Application of Traffic Epoxy Adhesive (Cat's Eye Adhesive)

The Traffic Epoxy Adhesive 878-1001 is a two-component epoxy-based adhesive designed for bonding traffic devices and road studs (cat's eyes) to asphalt or concrete surfaces.
Due to the limited time available for installing traffic equipment, achieving rapid curing while maintaining acceptable mechanical properties is highly important. With the special formulation used in this product, the drying time has been significantly reduced without compromising desirable mechanical performance.
Key Features

- Fast curing
- Easy installation
- High bonding strength
- Excellent resistance to moisture and weathering conditions

Epoxy Adhesive Consumption Rate
The consumption of adhesive per road stud (cat's eye) depends on the asphalt type and application method:

- Transverse installation: approximately 150 grams per stud
- Longitudinal installation: approximately 120 grams per stud

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Introduction and Application of Traffic Epoxy Adhesive (Cat's Eye Adhesive)

Physical Properties:

- Form: Paste-like
- Density: 2,100 kg/m³
- Mixing ratio (by weight): 7 : 100
- Color: Gray
- Gel time (100 g at 25°C): 30–35 minutes
- Final curing time: Maximum 3 hours
- Service temperature: 10 to 35°C
- Thermal resistance: Excellent
- Chemical resistance: Excellent resistance to gasoline, oils, and petroleum solvents
- Tensile strength (per ASTM standard): Minimum 9 MPa

Method of Application:

- Ensure suitable weather conditions before application.
- The surface must be clean, dry, and free of dust, grease, or contaminants; fully prepare the substrate before bonding.
- Mixing: Thoroughly stir Component A, then slowly add Component B (hardener) in the specified weight ratio and mix completely to ensure full reaction.
- Apply the adhesive with a spatula to the part (e.g., road stud/cat's eye) and press firmly onto asphalt or concrete.
- After mixing A and B, the adhesive must be used within about 5 minutes (depending on temperature) to avoid gelation.
- Prepare small batches to prevent premature curing.
- Note: Even with the lid closed, the mixed product will continue to cure and cannot be stored once components are combined.

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Introduction and Application of Traffic Paint

Traffic paint AYA-7010 is a single-component, solvent-based acrylic resin coating. Due to its excellent weather resistance, UV stability, and strong adhesion to cement, concrete, brick, metal, and asphalt surfaces, it is fully suitable for road marking on streets and highways, curb painting, and similar applications.

Uses

- Traffic coating
- Road and street marking
- Highway and airport runway marking
- Parking lots
- Curb painting
- Marking pedestrian areas and playground surfaces

Properties and Advantages

- Fast drying
- Excellent UV and weather resistance
- Outstanding abrasion resistance
- Strong adhesion to various substrates
- Good durability against climatic changes
- High chemical resistance to weak acidic, alkaline, and saline solutions
- Easy to apply

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Introduction and Application of Traffic Paint

Surface Preparation:

Surface must be clean, dry, and free from dust, grease, rust, old paint, and any loose material to ensure proper adhesion.

Application:

Apply by roller, brush, trowel, spray, or road-marking equipment. If needed, thin with Thinner 550. Apply between 5°C and 50°C. Clean tools with suitable thinner after use.

Safety:

Avoid skin contact and inhalation of vapors. Use gloves, mask, protective clothing, and skin barrier cream.

Properties Table (at 25°C)	
Gloss Level	Semi-matte
Number of Components	Single-component
Solids Volume Percentage	75%
Density	65 g/cm^3 ±0.1
Recommended Dry Film Thickness	300 µm
* Theoretical Coverage with Recommended Thickness*	6.2 ± 2 kg/m^2
Surface Dry Time (ASTM D1640)	30 minutes at 300 µm thickness
Through Dry Time (ASTM D1640)	2 hours
Full Cure Time	24 hours
Thinner	T-550 Acrylic Thinner

★ Theoretical Coverage with Recommended Thickness*

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Alkyd Curb Paint

The alkyd curb paint produced by Alvan Fam Setareh Khorasan Company is a single-component liquid coating based on alkyd resin. Owing to its good abrasion resistance and excellent brushability, it is a suitable option for painting concrete curbs and metal surfaces. Because this paint provides strong adhesion to concrete, it is widely used for coating most urban curbstones.
This product can be supplied in various grades—based on the required coverage and gloss level—according to customer orders. For thinning during application, the use of the company's alkyd thinner is recommended.

Features:

- Long service life
- Available in different gloss and coverage grades
- Excellent brushability
- Good adhesion to the substrate

Basic Specifications:

Resin type: Alkyd
Viscosity (Krebs): 110 ± 10 KU
Weight solids: Minimum 70%
Density: 1.2–1.3 gr/cm³
Surface drying time: Maximum 3–4 hours (at 150 microns dry film thickness)

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Epoxy Floor Coatings

Epoxy flooring is a coating based on epoxy resin and epoxy hardener that can be applied in multiple layers on various substrates such as stone, concrete, and terrazzo. Epoxy resin floors can be installed as a seamless, continuous system. The absence of joints and 90-degree angles with walls makes cleaning and washing much easier in hygienic environments such as hospitals and pharmaceutical facilities.

Epoxy flooring protects the underlying surface against abrasion and wear, offers high mechanical strength and load-bearing capacity, and is resistant to acids, alkalis, and a wide range of chemicals. Its modern appearance, wide color and design variety, and the ability to apply line marking and floor signage without changing the base material have made it attractive to interior designers and companies.

Key features:

- Seamless surface with a smooth, uniform finish
- Applicable in 2D and 3D designs
- Excellent adhesion to various substrates
- High resistance to heavy loads and traffic
- Antibacterial properties
- Quick and easy installation
- Chemical resistance
- Thermal shock and temperature-change resistance
- Long service life, resulting in cost savings

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Epoxy Floor Coatings

Epoxy Flooring Application:

1) Surface preparation
   - Empty the area completely
   - Clean dust, grease, oil, and contaminants
   - Repair cracks and defects, then grind the surface to improve adhesion
2) Primer application
   - Low-viscosity epoxy primer
   - Penetrates concrete and improves adhesion
   - Apply using roller or brush
3) Mixing
   - Two components: resin + hardener
   - Mix with an electric mixer for about 2 minutes
   - Use immediately (limited pot life)

4) Intermediate coat
   - Apply with suitable trowel/squeegee
   - Allow to dry completely
   - Fix waves, pinholes, and defects if necessary
5) Final coat
   - Ensure no cracks or voids remain
   - Apply final layer with spike roller or wool roller
   - Final finish can be glossy or orange-peel texture