

## | Introduction

Industrial Etch Primer is a fast-drying, single-pack thermoplastic acrylic coating designed to provide excellent adhesion and corrosion resistance on ferrous and non-ferrous metal substrates. The product incorporates active anti-corrosive pigments and surface etching properties to enhance substrate bonding and coating durability.

Thermoplastic acrylic etch primer is a specialized coating used primarily to prepare metal surfaces for painting. It combines the fast-drying and durable characteristics of thermoplastic acrylic resin with the surface-etching action of acidic compounds. This type of primer is commonly applied in automotive refinishing, industrial fabrication, metal furniture manufacturing, and maintenance painting where strong adhesion to bare metal is essential.

The term “thermoplastic acrylic” refers to the type of resin used in the primer. Thermoplastic acrylic resins soften when heated and harden again when cooled, allowing the coating to form a smooth, flexible, and durable film. Acrylic resins are valued because they dry quickly, resist weathering, and maintain good colour stability over time. In a primer, these resins help create a protective layer that bonds effectively with topcoats such as enamel, polyurethane, or acrylic paints.

The “etch” part of the primer comes from the inclusion of acidic ingredients, often phosphoric acid. These acids chemically react with the metal surface, especially steel, galvanized steel, or aluminium. The acid lightly corrodes or “etches” the metal at a microscopic level, creating a roughened surface that improves paint adhesion. This process also helps remove minor oxidation and contaminants from the surface. As a result, the primer forms a much stronger bond than ordinary primers applied directly onto smooth bare metal.

## | Where it could be used.

- Structural steel
- Automotive components
- Industrial equipment
- Aluminium and galvanized surfaces
- Maintenance and repair applications

## | Benefits

- Excellent adhesion to steel substrates,
- Good anti-corrosive performance,
- Fast drying characteristics,
- Easy application by spray or brush,
- Available in bulk quantities,.

## | How to Apply

### Surface Preparation

All surfaces must be clean, dry, and free from oil, grease, dust, rust, and other contaminants. Abrasive blasting to Sa 2 or Sa 2.5 is recommended where possible.

### Recommended Application Methods

- Conventional spray
- Airless spray
- Brush or roller for small areas and touch-up work
- Temperature: 10°C – 40°C
- Relative Humidity: Below 85%
- Thinner: Toluene / Xylene blend
- Equipment cleaning: Same as thinner

### Storage Conditions

Store in a cool, dry, and well-ventilated area away from direct sunlight and sources of ignition. Recommended storage temperature: 5°C – 35°C.

### Shelf life

12 months in unopened original containers under recommended storage conditions

### Health & Safety

Use only in well-ventilated areas. Wear appropriate PPE during application. Keep away from heat, sparks, and open flames. Refer to SDS before use.

## | Important Notes

- Do not add any water.
- Do not apply Alka 402 on any substrates where significant vapor pressure may occur.
- Always ensure good ventilation when using Alka 402 in a confined space.
- Freshly applied Alka 402 should be protected from damp, condensation and water for at least 24 hours.
- If in doubt about the use or application of this product, or further information please contact our Alka Technical Department.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- Avoid contact with foodstuffs and utensils.

# Alka 402

Thermoplastic Acrylic Etch Primer



A full Material Safety Data Sheet is available from Alka on request.

Property	Value
Appearance	Smooth matte finish
Colours	Grey / White / Black
Density	Approx. 1.2 – 1.4 g/cm <sup>3</sup>
Volume Solids	Approx. 40 – 50%
VOC Content	Complies with applicable industrial standards
Drying Time @ 25°C	Touch dry: 10 – 15 minutes
Recoat Time	30 – 60 minutes
Adhesion	Excellent on properly prepared metal substrates
Corrosion Resistance	Good corrosion resistance with suitable topcoat systems
<b>Packaging</b>	Available in 1 L, 4 L, 20 L packages.
<b>Colours</b>	Grey / White / Black

All products are subject to Alka terms and conditions. Read the full version on our website prior to any purchase.

## | Contact us

**ALKA COATINGS / ABN: 70 652 323 487**

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