

| Introduction

Alka 411 is a Heavy-Duty Automotive Frame Coating. Alka 411 is a rapid-drying protective enamel developed for metal underbody assemblies and exposed steel components requiring durable protection and aesthetic uniformity. The coating utilises advanced oxidative curing technology to produce a resilient protective film with good flexibility, adhesion, and atmospheric durability.

This coating forms a tough and resilient protective layer that enhances both the appearance and service life of vehicle frames and structural components. Its fast-drying properties reduce repair and maintenance time, making it ideal for automotive workshops, restoration projects, and industrial vehicle manufacturing. Chassis black is commonly applied to truck frames, suspension parts, axles, trailers, and undercarriages where long-lasting protection is required.

The coating offers good adhesion to properly prepared metal surfaces and can be applied by spray, brush, or roller. In addition to corrosion resistance, it provides a clean, uniform semi-gloss or matte black finish, improving the overall appearance of automotive components.

The product is suitable for direct application onto properly prepared steel surfaces in maintenance and refurbishment operations.

| Where it could be used.

- Automotive chassis and subframes
- Trailer frames and transport equipment
- Steel support assemblies
- Workshop refurbishment and repair projects
- Agricultural and utility equipment
- General maintenance coating applications

Suitable for both indoor and outdoor service conditions.

| How to Apply

Surface Preparation

- Remove all grease, oil, dirt, salts, and loose contaminants before coating,
- Abrade glossy or weathered coatings to promote adhesion,
- Ensure substrate is dry and free from surface contamination prior to application,
- Galvanised substrates should be treated with a suitable etching primer before top coating,
- Ensure repaired or exposed steel areas are appropriately primed.

Recommended Application Methods

- Application equipment should be selected according to project scale and substrate geometry.
- 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

Application Procedure

- Mix thoroughly before use until product consistency is uniform
- Thin only where necessary for climatic conditions or spray viscosity adjustment
- Apply even continuous coats across prepared surfaces
- Additional coats may be applied after suitable drying interval
- Ensure adequate airflow during application and curing stages

Recommended Environmental Conditions	Recommended Range
Surface Temperature	Above 10°C
Ventilation	Adequate airflow required

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.

Property	Typical Value
Flash Point	Approx. -3°C
Dangerous Goods Classification	Flammable Liquid
Storage Conditions	Cool, dry, ventilated area

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.

Environmental Information

- Prevent coating materials and solvents from entering waterways or drainage systems.
- Dispose of waste coatings and solvents according to local environmental regulations.
- Clean application equipment using approved handling and disposal procedures.

Important Notes

- Do not add any water.
- Do not apply Alka 411 on any substrates where significant vapor pressure may occur.
- Always ensure good ventilation when using Alka 411 in a confined space.
- Freshly applied Alka 411 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.

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

Property	Typical Result
Colour	Black
Finish	Satin
Surface Durability	Good
Chemical Resistance	Moderate
Dry Film Condition	Non-hazardous after cure
Recommended Reducer	Industrial enamel thinner
Maximum Reduction	Up to 10%
Coverage	Approx. 10 m ² /L @ 40 µm DFT
Surface Dry Time	10 – 15 minutes
Recoat Time	Approx. 8 hours
Packaging	4 L and 20 L

Product Notes:

- Actual spreading rate may vary according to substrate roughness and application losses.

Performance Notes:

- Actual spreading rate depends on surface texture, film build, and application losses.
- Increased coating thickness or adverse weather conditions may extend drying times.

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

| Contact us

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