



METALGONE

 SOLVENT-BASED

Solvent-borne anti-rust multicoat lacquer (primary, intermediate and finishing coat) based on an alkyd resin altered with urethane, with a semi-glossy aspect and a high content of rust inhibiting pigments. Guarantees a long-lasting protection.

Ideal for all types of ferrous metals subject to adverse weather conditions.

AREAS OF USE

Bare or previously painted¹ outdoor and indoor prepared² ferrous metals³: frameworks, metal frames, balustrades, railings, metal gates, wire fences... made of iron or steel.

Do not apply on bare substrates made of zinc⁴ (galvanized steel and brass contain zinc). In this case, opt for our PRIMER EXTREME followed by a finishing lacquer.

Do not apply on horizontal surfaces that are in constant contact with water (except on horizontal metal bars).

MAIN CHARACTERISTICS

- ◆ High covering effect.
- ◆ High content in anti-corrosion pigments.
- ◆ Excellent adhesion on iron and steel (after preparation).
- ◆ Very resistant to weathering, frost, UV rays and clogging.
- ◆ Easy upkeep: washable (after the product is cured).

METHOD OF DILUTION

Ready-to-use.

SPREADING RATE

10 to 12 m²/l (theoretical spreading rate per coat that varies according to the application method, the evenness and porosity of the substrate).

AVAILABLE SHADES

With the 3 bases (W, M and TR), obtain a range of over 30,000 shades. Please be aware that the darker the shade, the weaker the anti-rust properties and resistance to abrasion and UV rays.

EU limit value for this product (Cat A/i): 500 g/l (2010). This product contains at most 320 g/l of VOC.

CLEANING OF EQUIPMENT

Immediately after use with white spirit.

AVAILABLE CAN SIZES

0.5 l - 1 l - 2.5 l

CHEMICAL PROPERTIES

Binding agent: altered alkyd resin with urethanes.
Pigments: zinc phosphate, titanium dioxide and mineral fillers.
Solvents: aliphatic hydrocarbons.

PHYSICAL PROPERTIES

Density: around 1.41

Dry extract:

% in weight: 77 to 79
 % in volume: 63,5 to 65,5

Drying time at +23 °C and 60% RH⁵:

Touch dry: 4 hours
 Recoatable: 20 to 24 hours⁶
 Hard: 2 to 3 days
 Cured: 28 days

Dry film aspect: semi-gloss⁷ (around 50 GU at 60°C)

Heat resistance: up to 60 °C
 (max 80 °C at peak temperature)

Recommended thickness per coat:

Wet film: 83 µm - 100 µm
 Dry film: 54 µm - 65 µm

RECOMMENDED MATERIAL

Anza-paint rollers: Super Felt or Molto Extra Thin (foam roller).

Anza-paint brushes: Super Traditional, Super Tough or Super Effective SG.

HVLP (air spraying)⁸: needle: 1.5 mm; dilution: 10%; maximum thickness of the wet film per coat: 100 µm.

¹ With a previous adhering lacquer (solvent-borne if outdoor application). See page 4 "Tips & Tricks" No 1 to check if the old lacquer is adhering.

² See from page 3 for the preparation of the substrates.

³ Establish if the metal is ferrous or non-ferrous using a magnet. Only ferrous metals are drawn to the magnet.

⁴ Our METALGONE contains an alkyd resin and the fatty acids in the alkyd resin react with these bare materials. This results in zinc soaps which unstick the lacquer over time.

⁵ If covered in a water-borne paint.

⁶ The drying time is longer in cold and/or humid weather. (RH = relative humidity).

⁷ Please be aware that the satin aspect will only show once the lacquer has dried through (after 28 days). During this period of complete drying, the lacquer's film will appear shinier.

⁸ Tested with a non-dyed product at 23 °C (60% RH).

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PRESERVATION AND STORAGE

Minimum a year in the original packaging, unopened⁹ and stored in a cool and dry place protected from frost and direct sunlight.

PRECAUTION OF USE

Our METALGONE contains an alkyd resin that inside, in white or in light tones will eventually turn yellow when exposed to too little direct sunlight or to heat (radiators, heating hose, ...).

WASTE TREATMENT

This product, including its contents and residues, cannot be disposed of in nature, down the drains (sink and toilets), or in household waste. Please drop off your empty can in a waste collection and treatment centre. To dispose of the product's remains, check with the relevant local and national authorities for more information about the applicable legislation.

SAFETY

Please refer to the safety datasheet of this product on our website: www.peintagone.com. Also available upon request by e-mail info@peintagone.com or by phone **+32 (0) 81 94 61 89**.

OPTIMAL CONDITIONS FOR APPLICATION	METALS & DERIVATIVES
AMBIENT TEMPERATURE	min. +8 °C, max. +25 °C
RELATIVE HUMIDITY	max. 70%
SUBSTRATE TEMPERATURE	min. +8 °C ¹⁰ , max. +25 °C

- Environmental conditions for external use: in dry weather and out of direct sunlight.
- For optimal application, see page 4 "Tips & Tricks" No 3.

Technical information regarding our products and systems is based on thorough lab testing, as well as long-term practical experience. However, it is given purely as a guide and can by no means serve as a guarantee. This technical datasheet (edited 25/11/2024) cancels and replaces all previous versions. Check with us to make sure that you have the most recent edition.

⁹ Warning! Once the can is open, bacteria can grow in the product (from adding dyes or using your paint utensils) and contaminate it in a few days, which would render it unusable.

¹⁰ For outdoor application, the substrate must be at least 3 °C above dew point.

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SUBSTRATE PREPARATION

Our METALGONE is to be applied on indoor and outdoor substrates which are **clean, dry, sound** and **cohesive**.

SUBSTRATE	PREPARATORY WORK	PRIMER	FINISH
METALS & DERIVATIVES			

FERROUS METALS¹¹ OUTDOORS AND INDOORS (A)

BARE, PREVIOUSLY PAINTED OR PRE-PAINTED IN FACTORY (B)	Degrease using white spirit ¹² . If the substrate is in poor condition, remove all of the rust and non-adhering elements (lacquer non-adhering lacquer ¹³ ...) by brushing, scraping and/or washing.	1 to 2 coats of METALGONE	2 coats of METALGONE
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- A.** For application on a radiator, apply 2 coats of **METALGONE** (one as a primer and one as a finish). Our **METALGONE** contains an alkyd resin which, in white and pastel shades, could yellow under the effect of the radiator's heat. Tip: dye it in a darker and/or different colour to the one on the walls.
- B.** On a substrate that is pre-painted in factory or has weak adhesion: carry out an adhesion test¹⁴ beforehand.

¹¹ Establish if the metal is ferrous or non-ferrous using a magnet. Only non-ferrous metals are drawn to the magnet.

¹² Using cellulosic thinner is not recommended because it evaporates too quickly from the cloth.

¹³ See page 4 "Tips & Tricks" No 1 to establish if the previous coat of lacquer is adhering.

¹⁴ Apply the product on a 10 x 10 cm "test" zone. After 48 hrs, use your nail to scratch the middle of the painted surface to decide whether the adhesion level of the product is sufficient.

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TIPS & TRICKS

- 1. In order to guarantee long term adhesion of a primer or a lacquer:** check before applying that the previous coat of lacquer adheres well to the substrate. **To do this, carry out an adhesion test:**

Use a cutter to draw a grid made up by 3x3 mm squares on a 5x5cm surface on the previous coat of lacquer. Make sure to press the substrate's surface with the cutter. Next, apply adhesive tape to the grid surface using pressure, then rip it off.

- ◆ Good adhesion = no particles on the adhesive.
- ◆ Satisfactory adhesion = some particles on the adhesive.
- ◆ Bad adhesion = more than 50% of the squares on the adhesive.

- 2. If you want to apply a bright colour,** this is our suggestion:

- ◆ For bright red or bright orange shades, apply a coat of primer or lacquer tinted in "PE165 TOXIC" grey before applying 2 to 3 finishing coats of the bright colour of your choosing.
- ◆ For all bright green and bright yellow shades, apply a coat of primer or lacquer dyed in "PE032 GOOD LUCK" ochre yellow before applying 2 to 3 finishing coats of the bright colour of your choosing.

- 3. For optimal application:**

- ◆ When opening the can, if a thin layer is deposited on the lid or in the can, remove it (be sure not to stir it). If other anomalies (unusual odour, ...) are present, apply the paint on a test zone before contacting us.
- ◆ Stir the content of your can vigorously to create a homogenous mass, both during and after application.
- ◆ Make sure that the ambient temperature is between +15 and +25°C during application and for the following 24 hours.
- ◆ Stick to the drying time between coats (longer in cold and humid weather).
- ◆ Respect the lacquer's spreading rate (m^2/l).
- ◆ Work each surface without interruption.
- ◆ For the final coat, make sure you have sufficient quantity (2 different production batches or 2 different can sizes can differ slightly in terms of shades).
- ◆ Do not dilute the final coat.
- ◆ Avoid applying in the sun or in high winds, whether it be before, during or after application. Drying too quickly can damage the adhesion of the product on your substrate.
- ◆ Apply two finishing coats indoors and three coats outdoors (very important for surfaces most exposed to the sun and bad weather).