

ZINGALUSPRAY

ZINGALUSPRAY offers the film galvanising system ZINGALU in an aerosol spray for easy small applications. ZINGALUSPRAY has 90% of ultra pure zinc (ASTM D520 type III) and 4% aluminium flakes in the dry film which provide long lasting cathodic protection to ferrous metals. The aluminium flakes offer barrier protection and a bright finishing color, matching the color of galvanised surfaces. Therefore ZINGALUSPRAY is ideal for repairing and touching-up of damaged or old hot-dipped, Zinganised or other zinc coated structures.

PHYSICAL DATA AND TECHNICAL INFORMATION

WET PRODUCT

Components	<ul style="list-style-type: none"> - Zinc powder - Aromatic hydrocarbons - Binder - Aluminium flakes (non leafing)
Density (without propellant)	1,58 kg/dm ³ (± 0,1 kg/dm ³) at 20°C
Solid content (without propellant)	<ul style="list-style-type: none"> - 17.20% by volume (± 2%) - 58,70% by weight (± 2%)
Propellant	Dimethylether (DME)
Flash point	-41°C (~propellant)
VOC	659 g/L

DRY FILM

Colour	Metal grey colour with aluminium gloss, comparable to hot dip galvanisation
Gloss	Semi-gloss
Special characteristics	<ul style="list-style-type: none"> - Good resistance to mechanical shocks, abrasion and erosion - Very economical - Efficient and solid - Ideal for spot welding - Contains 90% zinc in the dry film and 4% aluminium
Temperature resistance	<ul style="list-style-type: none"> - Minimum -40°C - Maximum +120°C

PACKING

500 mL	Available. Spray can
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CONSERVATION

Shelf life	5 years in the original, unopened package and shaken mechanically after 3 years.
Storage	Store vertically in a dry environment at temperatures between 5°C and +35°C (preferably at room temperature ±18°C).

CONDITIONS

SURFACE PREPARATION

Surface preparation	<ul style="list-style-type: none"> - ZINGALUSPRAY can be applied on ferro-metals and damaged zinc surfaces. - For optimal performance, the metal should first be degreased, preferably by steam-cleaning. Alternatively, the surface can be degreased using solvent (e.g. ZINGASOLV), but never use white spirit. - For optimal performance, clean to SA 2,5 (ISO 8501:2007). For non-critical (small) areas, cleaning to St 3 is sufficient (using a steel brush).
Roughness	<ul style="list-style-type: none"> - ZINGALUSPRAY should be applied on a metal substrate that has a roughness grade of fine to medium G (Rz 50 to 100 µm) according to the standard ISO 8503-2:2012. - Such a level of roughness is not needed when ZINGAUSPRAY is applied on a hot-dip galvanisation or a metallisation layer, or when it is applied on top of an existing ZINGA. Old hot-dipped surfaces have adequate roughness, new hotdipped surfaces require a sweep blast - For small, non-critical areas, roughness can be obtained by using a steel wire brush or sand paper.
Maximum time to application	Apply the ZINGALUSPRAY as soon as possible on the prepared metal substrate before any contamination or corrosion occurs before coating. Otherwise the surface must be cleaned again as described above.

ENVIRONMENTAL CONDITIONS DURING APPLICATION

Ambient temperature	<ul style="list-style-type: none"> - Minimum 0°C - Maximum 35°C
Relative humidity	<ul style="list-style-type: none"> - Maximum 90% - Do not apply on a damp or wet surface
Surface temperature	<ul style="list-style-type: none"> - Minimum 3°C above the dew point. - No visual presence of water or ice - Maximum 60°C

APPLICATION INSTRUCTIONS

GENERAL

Shaking	ZINGALUSPRAY must be shaken thoroughly before application. Shake the can vigorously for minimum 30 seconds after liberating the balls. Repeat this every time the can is not used for some time.
Application	Keep the spray between 10 and 20 cm away from the substrate and move in a continuous speed from left to right. Repeat with a spray application from top to bottom.
Cleaning	Cleaning of equipment or spills with ZINGASOLV

OTHER INFORMATION

COVERAGE AND CONSUMPTION

Theoretical coverage	For 40 µm DFT: 4,30 m ² /L
Theoretical consumption	For 40 µm DFT: 0,23 L/m ²
Practical coverage and consumption	Depends upon the roughness profile of the substrate and the application method

DRYING PROCESS AND OVERCOATING

Drying process	Zingalu dries by evaporation of the solvent. The drying process is influenced by the total WFT, the ambient air (humidity and temperature) and the steel surface temperatures.
Drying time	For 40 µm DFT at 20°C in a well-ventilated environment: » Dust dry: 15 minutes » Touch dry: 30 minutes » Dry to handle: 1 hour » Fully cured: 24 hours
Overcoating with a new layer of ZINGALUSPRAY	- Always apply 2 layers, apply the second coat 1 hour after touch dry. - Maximum overcoat time depends on environmental conditions. If zinc salts have formed, they should first be removed.

RECOMMENDED SYSTEM

Unique system	ZINGALUSPRAY is advised for touch-up (HDG, metallisation or on ZINGA) and application on small areas only. It should be applied in two layers.
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For more specific and detailed recommendations concerning the application of ZINGALUSPRAY, please contact the Zingametall representative.

For detailed information about the health and safety hazards and precautions for use, refer to the ZINGALUSPRAY safety data sheet.

The information on this sheet is merely indicative and is given to the best of our knowledge based on practical experience and testing. The conditions or methods of handling, storage, use or disposal of the product cannot be controlled by us and are therefore outside our responsibility. For these and other reasons we retain no liability in case of loss, damage or costs that are caused by or that are linked in any way to the handling, storage, use or disposal of the product. Any claim concerning deficiencies must be made within 15 days upon reception of the goods quoting the relevant batch number. We retain the right to change the formula if properties of the raw material are changed. This data sheet replaces all former specimens.