

# ZINGALUSPRAY

Zingaluspray offers the film galvanising system ZINGA in an aerosol spray for easy small applications. To match a Hot Dip Galvanised surface; Aluminium flakes have been added. Zingaluspray still contains 92% Zinc in the dry film and provides cathodic protection to ferrous metals. Zingaluspray is ideal for the repairing and touching-up of damaged or old hot-dipped, Zinganised or other zinc coated structures.

## PHYSICAL DATA AND TECHNICAL INFORMATION

### WET PRODUCT

Components	- Zinc powder - Aromatic hydrocarbons - Binder - Aluminium flakes (non leafing)
Density (without propellant)	1,58 kg/dm <sup>3</sup> (± 0,1 kg/dm <sup>3</sup> ) at 20°C
Solid content (without propellant)	- 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	- Good resistance to mechanical shocks, abrasion and erosion - Very economical - Efficient and solid - Ideal for spot welding - Contains 92% Zinc in the dry film and 4% aluminium
Temperature resistance	- Minimum -40°C - Maximum +120°C

### PACKING

500 mL	Available. Spray can
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### CONSERVATION

Shelf life	2 years in the original, unopened package.
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"> <li>- Zingaluspray can be applied on ferro-metals and damaged zinc surfaces.</li> <li>- 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 <b>never use white spirit</b>.</li> <li>- 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).</li> </ul>
Roughness	<ul style="list-style-type: none"> <li>- Zingaluspray should be applied on a metal substrate that has a roughness grade of fine to medium G (<b>Rz 50 to 70 µm</b>) according to the standard ISO 8503-2:2012.</li> <li>- This can be obtained by <b>grit-blasting</b> (with sharp particles) but not by shot-blasting (with spherical particles). <b>Make sure that the surface is degreased before the grit-blasting</b>.</li> <li>- This high degree of roughness is not needed when Zingaluspray is applied on a hot-dip galvanisation or a metallisation layer, or when it is applied on top of an existing ZINGA layer. Make sure Zinc salts are removed from the surface to ensure a good electrochemical connection between the two layers. Old hot-dipped surfaces have adequate roughness, new hot-dipped surfaces require a sweep blast.</li> <li>- For small, non-critical areas, roughness can be obtained by using a steel wire brush.</li> </ul>
Maximum time to application	Apply the Zingaluspray as soon as possible on the prepared metal substrate (max. 4 hours waiting time). If contamination occurs before coating, the surface must be cleaned again as described above.

### ENVIRONMENTAL CONDITIONS DURING APPLICATION

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

## APPLICATION INSTRUCTIONS

### GENERAL

Shaking	Zingaluspray must be shaken <b>thoroughly</b> before application. Shake the can vigorously for <b>minimum 30 seconds</b> 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 <sup>2</sup> /L
Theoretical consumption	For 40 µm DFT: 0,23 L/m <sup>2</sup>
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: » Touch dry: 15 minutes » Dry to handle: 1 hours » Fully cured: 48 hours
Overcoating with a new layer of ZINGA	- <b>Always apply 2 layers, apply the second coat 1 hour after touch dry.</b> - Maximum overcoat time depends on environmental conditions. If zinc salts have formed, they should first be removed.
Reliquidisation	- Each new layer of Zingalu reliquidises the former Zingalu layer so that both layers form one homogeneous layer. - Therefore, Zinganised structures can be reloaded with Zingalu (Zingaluspray) after the Zinc layer has depleted due to cathodic protection. - For surface preparation on old Zinganised surfaces, contact a Zingametall representative or see document 'ZINGA on (old) HDG'.

### RECOMMENDED SYSTEM

Unique system	Zingaluspray is advised for <b>touch-up</b> (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.