

ZINGALUSPRAY

ZINGALUSPRAY is an aerosol version of the film-galvanising system ZINGALU, designed for easy application on small areas. It contains 90% of ultra-pure zinc and 4% aluminium flakes in the dry film, providing durable cathodic protection and barrier protection to ferrous metals. The aluminium flakes produce a bright metallic finish that matches the appearance of galvanised surfaces, making ZINGALUSPRAY ideal for the repair and touch-up of damaged or aged hot-dip galvanised, metallised, or other zinc-aluminium-magnesium (ZAM) coated structures. ZINGALUSPRAY can be applied directly onto a clean and rough substrate under a wide range of atmospheric conditions.

PHYSICAL DATA AND TECHNICAL INFORMATION

WET PRODUCT

Type	Organic zinc-aluminium galvanising aerosol coating
Density	1,58* kg/dm ³ (±0,05 Kg/dm ³)
Solid content	55% by weight* (±2%) 30% by volume* (±2%)
Propellant	Dimethyl ether (DME)
Flash point	-41 °C (~propellant)
VOC	659 g/L

DRY FILM

Colour	Metal grey colour with aluminium gloss, comparable to HDG.
Gloss	Semi-gloss
Typical layer thickness	40 – 150 µm DFT (microns) (See clause Recommended Systems)
Active metallic content	Aluminium: 4% (±1%) by weight Zinc: 90% (±1%) by weight, zinc purity of 99,995% (ASTM D520 – Type III).
Temperature resistance	From -40 °C to +120 °C, with peaks up to +150 °C
pH resistance	Atmospheric: 3.5 to 12.5 pH Immersion: 5.5 to 9.5 pH
UV resistance	Excellent
Each new layer of ZINGALUSPRAY re-liquidises the previous layer, allowing seamless fusion into a single coating. Therefore, structures coated with ZINGALU(SPRAY) can be reloaded or easily repaired with ZINGALUSPRAY.	

CONSERVATION

Shelf life	Minimum 5 years in the original, unopened package.
Storage	Store in a dry, well-ventilated storage area between +5 °C and +30 °C.

APPLICATION CONDITIONS

Ambient temperature	0 °C – +50 °C
Relative humidity	Maximum 95% RH. Do NOT apply on a damp or wet surface
Surface temperature	Minimum 3 °C above dewpoint Maximum 60 °C No visual presence of water or ice
Product temperature	+5 °C – +30 °C ZINGALUSPRAY can still be applied outside this temperature range but this shall influence the smoothness of the dry layer.

COVERAGE AND CONSUMPTION

Theoretical	Coverage	Consumption
40 µm DFT	2,1 m ² /spray	0,48 spray/m ²
90 µm DFT	0,93 m ² /spray	1,1 spray/m ²
120 µm DFT	0,70 m ² /spray	1,4 spray/m ²
<i>Practical</i> : Depends on the roughness profile of the substrate and the wastage factor.		

PACKAGING

500 mL	Available.
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SURFACE PREPARATION

GENERAL

ZINGALUSPRAY is to be applied on a clean, rough and dry surface so that the active zinc particles are in **direct contact with the steel or zinc substrate**. The prepared surface shall be free from oil, grease, dirt, dust, rust, mill scale, paint, oxides, corrosion products and other foreign matter.

SURFACE PRE-CLEANING

The surface shall first be cleaned to remove oil, grease, dirt and other contamination in accordance with **ISO 8504-2, ISO 8504-3 or SSPC-SP 1**. Possible cleaning method: organic solvent cleaning with ZINGASOLV (only for small areas and touch-ups – does not remove salts)

Any remaining residue from the pre-cleaning process shall be removed by a final rinse with clean water or solvent and blown dry with clean dry compressed air.

Consult a ZINGAMETALL representative / distributor for maximum allowable surface salt concentration.

SURFACE PREPARATION

It is strongly recommended that all surfaces shall be in compliance with **ISO 8501-3 Table 1, minimum P2** and that all sharp edges shall have a radius of minimum of 2 - 3 mm prior to any surface preparation work.

Steel

Surface cleanliness	Minimum	Recommended
Abrasive grit blasting	SSPC-SP 6 / NACE No. 3	Sa 2.5 / SSPC-SP 10 / NACE No. 2
Hand / Power tool cleaning	St 2 (ISO 8501-1)	St3 (ISO 8501-1) / SSPC-SP 11
UHP waterjetting	SSPC-SP WJ-1 / NACE WJ-1 / Wa 3 (ISO 8501-4)	
Laser cleaning	PLA-TA (AMPP SP21511-1)	
Surface profile	50 – 100 µm Rz / ISO 8503-1 - Medium (G)	

Hot-Dip Galvanised steel (HDG), ZAM (zinc, aluminium, magnesium) and Metallised Steel (TSZ or TSZA)

Surface cleanliness	HDG or ZAM	TSZ or TSZA
New	Sweep blasting: SSPC-SP 16 / ASTM D 6386 Hand and/or power tool cleaning: Controlled roughening of the surface	Newly metallised surfaces have a porous structure that ensures good adhesion of ZINGALUSPRAY. Remove any zinc corrosion products before application.
Weathered and intact – <i>Removing white rust (zinc corrosion products)</i>	Steam cleaning or high pressure waterjetting Sweep blasting: SSPC-SP 16 / ASTM D 6386 Hand and/or power tool cleaning	
Surface profile	Minimum 30 µm Rz	

De-dusting	Prior to the application of ZINGALUSPRAY the surface shall be properly de-dusted with non-contaminated compressed air. Maximum allowed dust contamination: Class 2 - ISO 8502-3
Maximum time to application	Apply the ZINGALUSPRAY as quickly as possible on the prepared metal substrate to prevent any potential contamination or corrosion prior to coating. Otherwise, the surface will need to be cleaned again following the previously outlined procedure.

For more information, please consult a ZINGAMETALL representative / distributor.

APPLICATION INSTRUCTIONS

GENERAL

Shaking	ZINGALUSPRAY must be vigorously shaken before application. Shake the aerosol can vigorously for minimum 30 seconds after liberating the mixing balls. Repeat this every time ZINGALUSPRAY is not used for some time.
Application	Hold the spray can 30 cm from the substrate and apply using a continuous side-to-side motion. Repeat with a perpendicular pass for optimal coverage.
Cleaning	Clean equipment and spills with ZINGASOLV or an aromatic solvent. After each use, hold the spray can upside down and press the spray button to prevent clogging.

DRYING TIME *(40 µm DFT in a well-ventilated environment)*

Air Temp.	10°C	20°C	30°C
Dust dry	20 minutes	15 minutes	5 minutes
Touch dry	30 minutes	20 minutes	10 minutes
Dry to handle	90 minutes	60 minutes	30 minutes
Fully cured	24 hours	20 hours	18 hours

ZINGALUSPRAY dries by evaporation of the solvent. The drying process is influenced by the total WFT, the environmental conditions (humidity, air temperature, wind speed), and the steel surface temperature.

OVERCOATING *(In a well-ventilated environment)*

Overcoating with a new ZINGALUSPRAY layer

Air Temp.	10°C	20°C	30°C
ZINGALUSPRAY*	2 hours	1 hour	30 min.

**after touch-dry*

It is recommended:

- To apply the second coat on the same day.
- That the film thickness of the second coat is lower or equal than the film thickness of the first coat.

Overcoating ZINGALUSPRAY with a paint

It is not advised to overcoat ZINGALU(SPRAY) with any other type of paint.

For more details contact a ZINGAMETALL representative / distributor.

Maximum overcoating time

Maximum overcoat time depends on the environmental conditions. If zinc corrosion products have formed on the surface, they shall first be removed.

For surface preparation on old ZINGALU surfaces, contact a ZINGAMETALL representative / distributor.

RECOMMENDED COATING SYSTEMS

ZINGALUSPRAY STAND-ALONE

- ZINGALUSPRAY can be used as a stand-alone system, applied in 1 or 2 layers to obtain a total DFT of 40 µm up to 150 µm.
- ZINGALUSPRAY is advised for touch-up (HDG, metallisation or on ZINGALU) and application on small areas.
- **The total DFT of a ZINGALUSPRAY layer must never be higher than 250 µm. (= absolute maximum)**



TECHNICAL DATA SHEET

ZINGALUSPRAY.EN

www.zinga.eu

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HEALTH & SAFETY

Always wear appropriate personal protective equipment (PPE) such as safety gloves and goggles. In case of insufficient ventilation, wear suitable respiratory protection.

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

For more specific and detailed recommendations concerning the use and application of ZINGALUSPRAY, please contact the Zingametall representative / distributor.

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.