

# Syntech Zinco Metal

Single-component primer and topcoat for direct applications on metal



Single-component alkyd primer and topcoat in solvent vehicle with zinc phosphates for direct applications on metal.

**CUSTOMS CODE:**

**COMPONENTS:** Single-component

**APPEARANCE:** Liquid

**AVAILABLE COLORS:** RAL classic

**PACKAGING AND DIMENSIONS:** Can 1 kg - Can 5 kg - Can 25 kg

## FEATURES AND BENEFITS

The main properties of Syntech Zinco Metal are:

- Quick drying
- Easy application in the workshop and on site
- Color stability over time
- Application by brush, roller, airless
- Good adhesion on suitably prepared metal
- Good chemical resistance

## FIELDS OF APPLICATION

Syntech Zinco Metal is suitable for direct application on metal as a primer and top coat; as corrosion protection with barrier effect; suitable for protecting metal surfaces such as railings, handrails, fences, frames, agricultural machinery, light or heavy carpentry; alternative to protection systems that use multiple layers of paint.

## ALLOWED SUPPORTS

Metal surfaces - Steel



## PREPARATION OF SUPPORTS

### Steel and Cast Iron

It is necessary to remove solder residues and grind the joints. The surfaces to be coated must be free of dirt, oil, grease and impurities; Salts and other contaminants can be effectively removed by high-pressure washing with fresh water prior to blasting. Sandblast to cleanliness level Sa 2½ according to ISO 8501-1. Average surface roughness degree RZ ≥ 50 µm. After sandblasting, carefully clean the surface, removing dust and abrasion residues.

### Repair of small areas

It is necessary to remove solder residues and grind the ground joints. The surfaces to be coated must be free of dirt, oil, grease and impurities, salts and other contaminants can be effectively removed by high pressure washing with fresh water. Thoroughly clean the area to be retouched with the aid of mechanical tools up to the St3 cleanliness level according to ISO 8501-1. The area adjacent to the area to be repaired must be sanded to ensure the best possible condition possible adhesion of the new coating.

### Pre-existing paints

Manual or mechanical preparation (St2-St3) or sandblasting until the complete removal of old paints and oxides not perfectly anchored to the support. Clean the surface carefully, removing dust and abrasion residues.

### Galvanized steel

Washing with biodegradable detergents according to SSPC-SP1 to remove dirt, oil and grease. Roughening sandblasting with non-ferrous abrasive, average surface roughness RZ ≥ 10 µm.

## MODE OF USE

The substrate must have a temperature of at least +3°C above the roughness point to reduce the risk of condensation or bleaching of the finish. Mix with a mechanical stirrer until a homogeneous consistency is obtained. Avoid excessive air trapping.

Dilution:

Brush and roller: 0-5% with NITRO thinner

Electrostatic: 15-20% with NITRO thinner

Airless: 5-10% with NITRO thinner

Air mixture: 10-15% with NITRO thinner

Application

| Method           | Pressure (bar) | Nozzle (mm/p) | Fan (degrees) |
|------------------|----------------|---------------|---------------|
| Brush and roller | n/a.           | n/a.          | n/a.          |
| Electrostatic    | 130            | 0.15          | 40°           |
| Without air      | 130            | 0.15          | 30°           |
| Airmix           | 90             | 0.15          | 40°           |

Air drying

| Degree of drying | 10°           | 20°           | 30°           |
|------------------|---------------|---------------|---------------|
| Dust free        | 20-30 minutes | 15-20 minutes | 10-15 minutes |
| Out tattoo       | 80-90 minutes | 50-60 minutes | 30-40 minutes |
| Out of print     | 24-28 hours   | 16-18 hours   | 10-12 hours   |
| Stackable        | 48 hours      | 36 hours      | 24 hours      |
| Completion       | 14 days       | 10 days       | 7 days        |

Waiting time on hands

|         | 10°C     | 20°C     | 30°C     |
|---------|----------|----------|----------|
| Minimum | 8 hours  | 7 hours  | 6 hours  |
| Maximum | 24 hours | 22 hours | 20 hours |

## APPLICATION METHODS





Low pressure airless nebulizer - Brush - Paint roller - Sprayer




## TOOL CLEANING

Nitro thinner



## KEY FEATURES

-  Density: 1.30 ± 0.02 kg/l
-  Solvent-based product
-  To be applied in two coats
-  Use wearing protective gloves

-  Shelf-life: 12 months
-  Temperature of use: +5 / +30 °C
-  Use wearing protective glasses

## TECHNICAL SPECIFICATIONS

*EN ISO 2409*

Adhesion to substrate **Level O**

Touch hardening at 20°C **50-60 min**

Time before second coat at 20°C **7 - 22 h**

Maximum relative humidity **80 %**

*DIN 8*

Viscosity **30 ± 2 s**

Working temperature **-20 / +70 °C**

Dust-free time at 20°C **15 - 20 min**

Complete hardening at 20°C **10 day**

*EN ISO 9227*

Salt spray **200 h**

Minimum relative umidity **35 %**

Dry residue **45 %**

Determination of volatile matter (VOC) < **500 g/l**

## CONSUMPTION

Approximately 0.20 kg of Syntech Zinco Metal for each square meter of surface to be covered for each coat. Apply in two coats.

## STORAGE AND CONSERVATION

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity. Store the product at a temperature between +5°C and +35°C.

## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

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