

Syntech Primer Metal

Two-component epoxy primer for metal surfaces



“Surface tolerant” primer, two-component, modified epoxy-polyamide, for industrial use, usable as a primer for exposed steel structures in highly aggressive, industrial and marine areas.

CUSTOMS CODE:

COMPONENTS: Two-components

APPEARANCE: Liquid + Liquid

AVAILABLE COLORS: Gray

PACKAGING AND DIMENSIONS: Can 25 kg [A] - Can 5 kg [B] - Kit: 1 Can 25 kg [A] + 1 Can 5 kg [B]

FEATURES AND BENEFITS

- Excellent anti-corrosion power
- High adhesion to the support
- Also applicable to high thicknesses
- Reduces consumption of the finishing product
- High chemical and physical resistance

FIELDS OF APPLICATION

- Corrosion protection with barrier effect
- Protective primer for structures and artefacts subjected to highly aggressive environments such as industrial and marine areas

ALLOWED SUPPORTS

Metal surfaces - Steel



PREPARATION OF SUPPORTS

Steel and Cast Iron

Any welding residues must be removed and the joints sanded. The surfaces to be coated must be free from dirt, oil, grease and impurities; Salts and other contaminants can be effectively removed by high-pressure washing with fresh water before sandblasting. Sandblast to cleanliness level Sa 2½ according to ISO 8501-1.

Average surface roughness degree RZ ≥ 50 µm.

After sandblasting, carefully clean the surface by removing dust and abrasion residues.

Pre-existing paints

Manual or mechanical preparation (St2 or St3 according to ISO 8501-1) or sandblasting until old paint and oxides not perfectly anchored to the support are completely eliminated. Clean the surface carefully, removing dust and abrasion residues.

Galvanized steel

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

Galvanized sheet metal

Sandblasting with non-metallic abrasives up to grade Sa2 in accordance with ISO 8501-1, commercial sandblasting SSPC-SP6 to remove all encrustations, rust and foreign bodies. The surface does not have uniformity as a fundamental requirement, both in terms of the degree of cleanliness and in terms of appearance. At the end of this process the surface has a predominantly gray color and a roughness suitable for ensuring a firm adhesion of the layers of paint that will be applied.

Where it is not possible to prepare by sandblasting, roughen the surface of the support mechanically or manually, then clean carefully. In this case the adhesion of the product must be confirmed.

Aluminum

Sandblasting with non-metallic abrasives up to grade Sa2 in accordance with ISO 8501-1, commercial sandblasting SSPC-SP6 to remove all encrustations, rust and foreign bodies. The surface does not have uniformity as a fundamental requirement, both in terms of the degree of cleanliness and in terms of appearance. At the end of this process the surface has a predominantly gray color and a roughness suitable for ensuring a firm adhesion of the layers of paint that will be applied.

Where it is not possible to prepare by sandblasting, roughen the surface of the support mechanically or manually, then clean carefully. In this case the adhesion of the product must be confirmed.

MODE OF USE

The support must have a temperature at least +3°C higher than the dew point to reduce the risk of condensation or bleaching of the finish.

Combine the two components in the indicated mixing ratio. Add component B (hardener) to component A (base) and mix thoroughly until the product is completely homogenized. It is possible to dilute the Syntech Primer Metal with 5-10% of Syntech Epoxy Thinner for applications with cup, airless and airmix airbrush.

APPLICATION METHODS

Low pressure airless nebulizer - Sprayer

TOOL CLEANING

Syntech Diluente Epoxy

KEY FEATURES



Density: 1.5 ± 0.05 kg/l



Min. recommended thickness: 80 µm



Shelf-life: 12 months



Use wearing protective gloves



Max. recommended thickness: 240 µm



Pot-life: 6 - 8 h



Temperature of use: +5 / +30 °C



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TECHNICAL SPECIFICATIONS

Adherence to steel **Livello 0**

EN ISO 2813
Brilliance **15 ± 5 Gloss**

Touch hardening at 20°C **2 h**

Complete hardening at 20°C **12 day**

Time before second coat at 20°C **3 h**

EN ISO 9227
Salt spray **300 h**

Viscosity **45.000 ± 1.000 mPas**

in peso
Dry residue **87 ± 2 %**

Working temperature **-20 / +70 °C**

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

CONSUMPTION

Approximately 0.18 kg/m² of Syntech Primer Metal for a dry thickness of 80 µm.

STORAGE AND CONSERVATION

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Store the product at a temperature between +10°C and +30°C.

WARNINGS AND PRECAUTIONS

Do not apply on surfaces that are not adequately prepared

Product intended only for industrial work by professional applicators

Respect the mixing ratios, consumption and overapplication times indicated

The use of unsuitable thinners different from those indicated can create problems for the product both of an aesthetic nature (color change, sedimentation of the product, variation in the degree of brightness, formation of surface hazes, etc.) and in terms of technical performance. The use of the wrong thinners can also create problems during the application phase. Azichem srl therefore does not guarantee any product performance if its dilution is carried out with unsuitable products or products other than those indicated. 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.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

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