STEEL PRIMER

TWO-COMPONENT, SOLVENT-BASED EPOXY PRIMER FOR METAL SURFACES

DRACO

RESTORATION and PROTECTION LINE

TREATMENTS FOR METAL SUBSTRATES

CE EN 1504-2

CE EN 13813 SR-B1,5-IR4

ELEVATED ADHESION METAL SUBSTRATES

STEEL PRIMER is a two-component solvent-based epoxy resin primer, preloaded with a special filler mixture. **STEEL PRIMER** is specially formulated as a primer coat for metal substrates and as protection against oxide and rust formation. **STEEL PRIMER** is also suitable for painting vertical surfaces.

ADVANTAGES

- ✓ **EASY APPLICATION**: **STEEL PRIMER** can be applied quickly and easily by roller.
- ✓ **HIGH ADHESION**: the adhesive power of **STEEL PRIMER** facilitates the adhesion of subsequent coatings.
- ✓ **HIGH RESISTANCE** to aggressive solutions and ageing.
- ✓ **LOW VOC CONTENT**. **STEEL PRIMER** complies with EU Directive 2004/42 (solvent guidelines): the maximum permitted VOC content for Category IIA/j type sb products is 500 g/l (limit: Phase 2, 2010). Its VOC content is in fact < 500 g/l (for the ready-to-use product).
- ✓ **STEEL PRIMER** is effective as protection against oxide and rust formation.
- ✓ **HIGH IMPREGNATION POWER**: **STEEL PRIMER** penetrates deep into even compact surfaces, effectively consolidating the substrate.

FIELDS OF USE

- ✓ Specific primer for priming metal substrates: stainless steel, non-ferrous metals and in particular aluminium and zinc.
- ✓ Adhesive and consolidating treatment prior to epoxy and epoxy-polyurethane cycles.

PREPARING THE SUBSTRATE

- ▸ The substrate must be compact and perfectly clean, and free of dust, efflorescences, grease or loose parts.
- ▸ The substrate must have a compressive strength of at least 25 N/mm^2 and an adhesion strength of at least 1.5 N/mm^2.
- ▸ Any cracks, micro-cracks or irregularities in the substrate must be repaired. Damaged substrates with cracks greater than 3 mm require volumetric rebuilding with the mortars of the FLUECO line and the CONCRETE FINISHERS.
- ▸ In the presence of porous and absorbent substrates, two or more coats will be necessary to achieve optimal pore closure, in order to avoid the creation of bubbles on subsequent layers.
- ▸ The substrate must be pre-treated by shot peening or sandblasting.

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MIXING THE PRODUCT

Before mixing, **STEEL PRIMER** must be heated to at least room temperature (room and substrate temperature). Mix the components separately in their own container before combining them. Pour component B into component A and stir for 3 to 4 minutes with a mixing drill at low speed until completely homogenised. Pour the mixture into a clean container and stir briefly again. If possible, do not take partial quantities from the packages to avoid any errors in the report that would cause incorrect curing.

INSTRUCTIONS FOR USE

The consumption of **STEEL PRIMER** is between 100-200 g/m2 per coat, depending on the porosity and irregularities of the substrate. Pour the mixture in portions onto the surface to be treated and spread it with a metal or rubber spatula. Even out the surface using a short-haired roller. The primer coat must be applied film-like and without pores. Depending on the substrate, several layers may be necessary after 12 and within 24 hours. After more than 24 hours to apply another coat the surface must be carefully sanded down. Once **STEEL PRIMER** is completely dry, the protective coating can be applied.

PACKS AND STORAGE



STEEL PRIMER is available in 20 kg packs (A+B):

15.2 kg (A) + 4.8 kg (B) = (A+B) 20 kg

In the original packaging and properly stored indoors in a dry place and at a temperature not below +5°C and not above +20°C, the product maintains its characteristics for 6 months.

PRECAUTIONS

- For further information on the safe use of the product, please refer to the latest version of the Safety Data Sheet and the chemical industry guidelines for the use of application products.
- Wear rubber gloves and protective goggles both during application and when cleaning tools.
- Skin contact with liquid resins can cause health disorders and allergies.
- In the case of application at low temperatures, storage in a heated environment for 36 hours beforehand is recommended.
- Take care that before and during the curing phase PRIMER does not come into contact with any substance containing silicone or capable of inhibiting the reaction in any way.
- Check compatibility with existing coatings.
- The material must be protected from water both during application and for the following 24 hours (at approx. +20 °C). Any contact during this time may cause the surface colour to change to white, which may alter the adhesion of subsequent layers.

PRODUCT CHARACTERISTICS

APPEARANCE	liquid
SPECIFIC WEIGHT (A+B)	1,1 kg/l
PACKS	15,2 kg (A) + 4,8 kg (B) = (A+B) 20 kg
STORAGE	6 months

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APPLICATION SPECIFICATIONS

MIXING RATIO	A:B=7,7:2,3
APPLICATION AND MATERIAL TEMPERATURE	From +12°C to +25°C
RELATIVE HUMIDITY	< 80% during installation and curing phase
COVER	100 - 300 g/m^2 per coat depending on temperature and surface conditions of the substrate
WORKABILITY	20-30 minutes (20°C - 65% R.H.)
WALKABILITY	12-15 h (20°C - 65% R.H.)
WAITING TIME BETWEEN SUCCESSIVE COATS	min 12 h max 24 h (20°C - 65% R.H.)

Times vary depending on substrate temperature and ambient temperature/humidity. If not specified, the above values are indicative and calculated at a temperature of 20°C and 65% relative humidity. Consumption may vary depending on the environmental and substrate conditions.

PERFORMANCE CHARACTERISTICS

UNI EN 1504-2 Coating (C)	TEST METHOD	PERFORMANCE
PERMEABILITY BY CO_2	EN 1062-6	S_D > 50 m
WATER VAPOUR PERMEABILITY	EN ISO 7783-1 EN ISO 7783-2	Class III - S_D > 50 m
CAPILLARY ABSORPTION AND WATER PERMEABILITY	EN 1062-3	w < 0,1 kg/m^2 x h0,5
DIRECT TENSILE TEST FOR GRIP	EN 1542	≥ 1,5 N/mm^2
ABRASION RESISTANCE	EN ISO 5470-1	< 3000 mg
RESISTANCE TO EXTREME CHEMICAL ATTACK	EN 13529	Class I
IMPACT RESISTANCE	ISO 6272-2	Class I
FIRE REACTION	EN 13501-1	Euroclass E
UNI EN 13813 - SR-B1,5-IR4	**TEST METHOD**	**PERFORMANCE**
ADHERENCE FORCE	ISO 4624	≥ B1,5
RELEASE OF CORROSIVE SUBSTANCES	EN 13813	SR
IMPACT RESISTANCE	EN ISO 6272	≥ IR 4
ABRASION RESISTANCE	DIN 53754/ASTM D	74 mg/1000 cycles
FIRE REACTION (*)	EN 13501-1	B_{fl}-s1
SOUND INSULATION	EN ISO 140-1	NPD
SOUND ABSORPTION	EN ISO 354	NPD
CHEMICAL RESISTANCE	EN 13529	NPD

(*) Evaluation of the product within a self-levelling flooring system.

Legal notes - Version SLCMP of 01.03.2017 - Draco Italiana s.p.a., for the values and technical data in this Data Sheet, adopts the parameters shown on the Data Sheet with the relative standards of reference. The Customer is required to verify that this sheet and the values shown are valid for the batch of product of interest and are not exceeded as they are replaced by subsequent editions. For any doubts, compare the technical data sheet with the one in effect at the time the sales contract was completed, which is available on the website **www.draco-edilizia.it**, and/or by contacting the Technical Office. No advice concerning the use of the products provided by our personnel in verbal or written form at the Customer's request constitutes an ancillary obligation of the purchase contract, and does not, in any way, represent a contractual service. It is based on our experience and limited to the current state of practical and/or scientific knowledge and is, therefore, not binding for the customer or applier. In particular, the Customer is required to test our products to check their suitability with respect to the type of application and intended use and is the only one responsible for the choices made.

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