

MALECO METALLSCHUTZ 860 AF

Anticorrosive Coating with active + passive Protection for Metals in aggressive Ambience Class C5-M, tolerant to Remains of Rust

Fields of Application

The paint/coating **METALLSCHUTZ 860 AF** is intended to be used as an anticorrosive protector for metals with smooth or rough surface, such as:

- ◆ steel, stainless steel (INOX), iron, galvanized steel
- ◆ aluminium, copper, brass, alloy
- ◆ alkyd based old paints, some plastics
- ◆ enamelled tiles and crockery
- ◆ highly recommended for metal structures such as towers, masts, roofs, gangways, tubes, fences, deposits (exterior) in harbours, airports, chemical or heavy industry and marine environment
- ◆ the cured paint is NOT suitable for food contact or drinking water

METALLSCHUTZ 860 AF is NOT suitable for the interior of water basins, ponds or pools, or on boats below the water line, as it won't withstand water pressure for a long time
Please check for this type of use the 2-C polyurethane paint **YaYa.tec PUR 233**



Classification of the estimated protection level acc. to BS-EN ISO 12944-5

class C4 - long duration - 2 hands
class C5-M - long duration - 3 hands

Composition / Properties

Mixture of epoxy ester and acrylic resins in solvents without aromatics; contains zinc phosphate as active pigmentation (stops the corrosion and protects long-time against new appearance of rust by chemical reaction). Consistency: thixotropic, very little edge recession - weather resistant - shock resistant - no yellowing - very high covering power - easy to apply - very strong adhesion to non-absorbent surfaces - very little permeability to water and water vapour = maximum passive protection.

Gloss: satined - density around 1,25 - colours: white ca. RAL 9003, all colours RAL, iron mica and aluminium.

Surface Preparation

- (1) For all kind of surfaces: the substrate must be firm, clean, dry, dust free and free from loose parts. Sand if necessary and eliminate all parts with poor adherence. The mechanical cleaning must result in the grade Sa 1 / St 2 or higher (all parts eliminated that can be taken off with a hard metal brush and appliance of strong manual force); sharp edges must be rounded and burrs be clipped.
- (2) Remove all organic adhesion-reducing substances such as algae, mould and resins, grease, oil, teflon.
- (3) Thereafter continue with the chemical preparation of complicated substrates such as zinc (galvanised), brass, copper, stainless steel, plastics, old paint:
 - ◆ steel/iron: no chemical preparation required - apply the first hand of the paint as soon as possible.
 - ◆ zinc/galvanised: prepare a solution of ammonia as surfactant mixing 1 litre of water with 1,5 litres of water-based ammoniac 2% and half a teaspoon of washing-up liquid. Rub the galvanised surface forcefully with a green abrasive fibre cloth and the ammonia solution until there appears a grey foam. Wash off this foam with abundant clean water. Alternatively use **PUFAS spray degreaser and lye agent** + green fibre cloth and then clean with abundant water. When dry again (in either case), the first hand of the **METALLSCHUTZ 860 AF** can be applied.
 - ◆ aluminium: clean with solvent Nitro, sand with an abrasive nylon cloth, wash again with Nitro until a white cotton cloth stays clean (not grey).
 - ◆ copper/brass/plastics that can be painted: clean with **PUFAS spray degreaser and lye agent**, rub forcefully with green abrasive fibre cloth and then clean with abundant water.
 - ◆ old paints/coatings: alkyd based old paints have to be sanded until mat; in the case of any other type of paint or coating or powder coating, there must first be made an adhesion test, after sanding.

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Application

Stir thoroughly the content of the can with a power drill and an agitator suitable for varnishes at slow speed.

METALLSCHUTZ 860 AF can be applied by brush, roller or airless pistol (except the colours DB 701...3)

approximate yield per hand:	150/200 ml/m ² equivalent to approx. 6,6/5,0 m ² /litre and hand
recommended yield for long duration:	2 or 3 hands for long term protection (>15 years): 2 hands x150 ml/m ² for ambience C4 3 hands x200 ml/m ² for ambience C5-M
touch dry:	2-3 hours at 20 °C and 65 % relative humidity
hard dry:	7-8 hours at 20 °C and 65 % relative humidity
overcoating:	after 24 hours at 20 °C and 65 % relative humidity
fully cured (max. resist. to abrasion + chemicals):	7 days at 20 °C and 65 % relative humidity
range of application temperature:	5 - 35 °C
data for airless application:	approx. 180 bar nozzle orifice 0,019" - 0,025" (0,48 - 0,65 mm) angle (opening) 50 - 80°
solvent:	Verdüner MALECO 1150 AF or turpentine - only for cleaning
cleaning:	immediately after finishing the work suitable solvents are indicated in the previous section

Information acc. to the Directive
2004/42/CE (RD 227/2006 del 24.02.)
- VOC limitation -
Cat A/i
limit (2010): 500 g/l VOC
max. content: 290 g/l VOC

Storage and Security Advices

Store the cans between 5 ... 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight do not store together with strong acid, alkali or oxidizing agents; storable for minimum 2 years after the date of production - after that date, the product will maybe thicken (depending on the colour), but not expire. In this case, add a maximum of 5-10% of the original solvent Maleco Verdünnung 1150 AF, nothing else, and stir thoroughly.

Security phrases acc. to CLP/DPD/GHS - REACH 1907/2006:

Flammable liquid and vapour.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.
Keep out of reach of children.
Avoid breathing spray.
If medical advice is needed, have product container or label at hand.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Dispose of contents/container to municipal collection point.
Repeated exposure may cause skin dryness or cracking.
Contains Cobaltbis(2-ethylhexaonate); phthalic anhydride. May produce an allergic reaction. .

Warning!



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