

TECHNICAL DATA SHEET

P.DS.128 (FB SERIES) REV06/02/2023

SOLVENT BASED

METAL ETCH PRIMER

Metal Etch Primer is an anti-corrosive, etching and adhesive primer namely for ferrous & non-ferrous metals in addition to other substrates. Metal Etch Primer has superior welding and adhesive properties and provides protection of the surface in addition to providing an ideal primer for overcoating with most Promac topcoat products.



USES

Interior & Exterior

Metal Etch Primer may be used for interior and exterior surfaces as a primer coating on multiple surfaces listed below. The product may be applied to a surface for protection during transportation, storage, fabrication and service life compatible surfaces include: Magnesium, Mild Steel, Cast Iron, Tin, Galvanized Steel, Chromadek, PVC, Zinc Cal.

FEATURES & BENEFITS

- Quick drying
- Heat resistant
- Excellent adhesion properties
- Superior welding properties
- Corrosion inhibitor

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| PHYSICAL FORM | Flammable viscous coloured liquid containing pigments |
| COLOUR | Grey, Black, Red |
| FINISH | Smooth Matt |
| POLYMER TYPE | Modified Acrylic |
| SPREADING RATE | Approximately 7 m ² /ℓ per application depending of surface profile. |
| RCMD FILM THICKNESSES | WFT: 166 - 200 µm per coat, DFT: 25 - 30 µm per coat |
| VISCOSITY @ 23 °C F4 Cup, S | 60 - 90 Sec |
| S G @ 23°C | 0.89 - 0.99Kg/ℓ |
| MASS SOLIDS | 27 - 29% |
| VOLUME SOLIDS | 14 - 16% |
| POLYMER TYPE | Phenolic modified vinyl copolymer |
| PIGMENTS | Contains chromate-based corrosion inhibitor |
| DRYING PROPERTIES | Surface or touch-dry: within 15 minutes |
| RECOATING TIME | 4h depending on conditions during drying and film build |
| FLASH POINT | Below 21 °C (Abel Closed Cup method) |
| PACKAGING | 1ℓ, 5ℓ & 20 ℓ as made to order |

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| THINNING | If required to reduce viscosity add a minimum quantity of ISO Propyl alcohol or A grade lacquer thinner. (NB: DO NOT add water) |
| CLEANING | Do not allow the product to dry on equipment. Equipment is readily cleaned using lacquer thinners |
| APPLICATION METHOD | Supplied ready-for-use using enamel roller, brush or conventional or airless spray |

DO NOT PAINT

- IF THE TEMPERATURE IS BELOW 10°C OR ABOVE 35°C
- IF IT IS RAINING OR RAIN IS FORECAST
- IF THE SURFACE IS DAMP (MOISTURE READING ABOVE 15%)
- BEFORE 9H00 AND AFTER 16H00 IN THE WINTER

SURFACE PREPARATION

General:

Ensure surfaces are dry, in sound condition, clean and free from any contaminants.

Poorly adherent materials:

Remove all poorly adhering material such as loose particles and damaged existing paint from the surface. If not effectively removed with the use of high-pressure water cleaning, then remove with the means of mechanical surface preparation methods such as Hand or Power tool cleaning methods.

Rust:

All rust layers must be completely removed until a bright metallic finish is achieved. Do so with mechanical surface preparation methods such as Hand tool, Power tool or Blast Cleaning Methods. The loose rust must then be removed from the surface before further treatment and preparation with Promac Galv Prep. **NB:** Failure to remove all rust may result in premature rust penetration through the applied paint system and/or failure of the coating system.

Mil Scale:

All mil scale is to be removed by means of mechanical surface preparation methods such as Power tool or Blast Cleaning Methods. Once removed the surface of the metal is to be cleaned with the use of Promac Galv Prep.

Oils, grease, grime, fungicide, mould & bacteria:

Remove oils, grease, grime, fungicide, mould, bacteria and other contaminants of a similar nature from the surface with the use of Promac Galv Prep.

Existing enamel & hard cured coating films in good condition:

All existing coatings that are in good condition, (confirmed by carrying out adhesive tests) must be prepared. The surface of the existing coating must be profiled to increase the tooth for optimal overcoating adhesion capabilities. Profile the existing coating by lightly abrading the existing coating surface by means of; Hand or Power Tool Cleaning and then further cleaned by surface cleaning methods (water cleaning methods).

Chalky surfaces:

Remove all chalky material from the surface with mechanical surface preparation methods such as Hand tool or Power tool. Then further remove all loose material. If chalky material remains on the surface, saturate a mutton cloth with lacquer thinners and wipe down until the surface is free from all chalky material.

Rigid unpainted substrate surfaces (i.e PVC, Chromadek):

All rigid unpainted substrate surfaces must be prepared. The surface must be profiled to increase the tooth for optimal adhesion performance of Promac Steel & Metal Etch Vinyl Primer. Profile the surface by lightly abrading the substrate surface by means of; Hand or Power Tool Cleaning and then further treat the surface with the use of Promac Galv Prep.

Exposed (unpainted) metal surfaces:

Subsequent to carrying out the required surface preparation methods above, all exposed (bare & unpainted) metal substrate surfaces shall be treated with the use of Promac Galv Prep.

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NOTE:

All additional products advised for use during surface preparation must be use and applied in accordance with the relevant product's data sheets.

APPLICATION

Subsequent to the surface preparation suggested above ensuring the surface is dry, sound and free of all contamination apply an application of Promac Steel & Metal Etch Vinyl Primer. to the surface using a brush, roller or spray. Allow for the product to dry for \pm 4 hours before overcoating the application Promac Steel & Metal Etch Vinyl Primer. may be overcoated with most Promac topcoat, intermediate and waterproofing products.

NOTE 1: Epoxy and polyurethane enamels (twin pack types and moisture cure types) may be adversely affected by the acid content of the primer: allow primer to cure for 24h minimum before using these finishing coats.

NOTE 2: Do not apply paint if it is raining or if rain is expected within 4 hours. Do not apply paint if the surface temperature is below 4°C.

HEALTH & SAFETY

The product contains a flammable solvent. Precaution must be taken to prevent naked flames encountering vapours (i.e. smoking must be prohibited). Solvents may also cause narcotic effects if the vapour concentration is too high: always ensure adequate ventilation (do not use solvent-based paints in a poorly ventilated or closed space). Avoid contact with skin, eyes, mouth etc. Wear protective clothing, goggles & gloves. If body contact is made, rinse off immediately. Wash product off skin before it has dried using soap and water.

DISCLAIMER ADVICE

The information given in this Product Information Sheet is based on controlled laboratory tests and many years of experience. It is given in good faith, but no guarantee of any performance characteristic is given or implied. Promac paints cannot be held liable for consequential damage of whatsoever nature that may arise from the use of Promac products. Paint technology is continuously being developed and Promac Paints reserves the right to update product specifications without prior notice. Contact Promac Paints for further details.