



428 Barrier Prime EX-428

PRODUCT DESCRIPTION

EX-428 A zinc phosphate polyamide cured epoxy primer.

SUBSTRATES & PREPARATION



SUBSTRATE

Structural steel



New steel sheet

Aluminium

Galvanised & Zinc Coated Steel

PREPARATION

Abrasive blast clean to AS 1627.4 Class 2.5, apply primer within 4 hours of blasting.

Treat new steel sheet with 971 Metal Conditioner. Do not allow the solution to dry, but wipe off with clean cloths. Rinse well with water to remove excess acid then wipe dry with clean cloths. Apply primer immediately after preparation of the clean surface.

Bare aluminium surfaces should be thoroughly cleaned using AA-6822 PROTEC® Heavy Duty Wax & Grease Remover before sanding, if necessary use a high grade scouring pad to remove heavy areas of grease and imperfections, all this is to be done in a wipe on wipe off motion using clean rags. Once dry, thoroughly abrade the surface using STARTLINE® P240 grit on an orbital sander or by hand rubbing using *Startline* P320. Once sanded the aluminium should be thoroughly blown down then cleaned with a 1:1 solution mix of 207 Methylated Spirits and clean water, using a wipe on wipe off action. This must be repeated until no residue shows on the cleaning cloths. The prepared aluminium must be primed within 6 hours or sooner after the preparation process; failure to do this will allow the aluminium to re-oxidise and the cleaning will have to be repeated.

Remove all surface contamination such as oil, grease or dirt by thoroughly washing the surface with AA-6822 *Protec* Heavy Duty Wax & Grease Remover. Sand the surface by mechanical means using P80 grit – P120 grit sand paper, then thoroughly blow down and clean the surface once again using AA-6822 *Protec* Heavy Duty Wax & Grease Remover.

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Stainless Steel	<p>Remove all surface contamination such as oil, grease or dirt by thoroughly washing the surface with AA-6822 <i>Protec</i> Heavy Duty Wax & Grease Remover and wipe dry with clean cloths.</p> <p>Abrade the surface using Startline P240 grit on an orbital sander or by hand rubbing using Startline P320 grit. Thoroughly blow down to remove dust and clean the surface again using AA-6822 <i>Protec</i> Heavy Duty Wax & Grease Remover.</p> <p>Alternatively abrasive blast clean to AS 1627.4 Class 2.5, apply primer within 4 hours of blasting.</p> <p>NOTE: Stainless Steel will vary in grades and a test area is always recommended to test adhesion before final application.</p>
Masonry, Brick & Concrete	<p>Brush down to remove all dust and powdered materials by wire or power brush. Chemically neutralize the surface if efflorescence is present.</p>
Timber	<p>Ensure surface is clean and dry and sanded to a smooth finish</p>
Fibreglass (GRP)	<p>Wash surface thoroughly using a mixture of warm water and detergent to remove waterborne release agents. Rinse with clean water and wipe dry.</p> <p>Lightly dry sand entire surface with <i>Startline</i> P320 grit paper. Blow down then thoroughly clean the surface with AA-6822 <i>Protec</i> Heavy Duty Wax & Grease Remover, working in small areas then thoroughly wiping each section completely dry with clean cloths.</p>
Previously painted surfaces	<p>Remove all loose and flaking paint, rust etc. with power/hand tool combination.</p> <p>Spot prime all bare steel areas.</p> <p>Before proceeding with the coating of any previously painted surface, a test patch should be done. Providing there has been no "frying" or other film defect, proceed as above.</p> <p>If any "lifting" or frying is evident, strip back to bare metal with 186 Superstrip Paint Remover.</p>

Before and after any sanding operation, the substrate must be thoroughly degreased using AA-6822 *Protec* Heavy Duty Wax & Grease Remover to remove all traces of dirt, oil, grease, silicone, wax etc.

Substrates other than those stated above should be tested before use, to ensure that the performance of this product is suitable for its intended use.

PRODUCTS

EX-428 Pack A

428-5436 Buff X41
428-6186 Dark Grey
428-8306 White

Pack B Hardener

414-9090 Hardener OR
BAH20 Hardener

Reducers

Normal conditions

EXR20 Epoxy Reducer Normal

Hot conditions

EXR30 Epoxy Reducer Slow

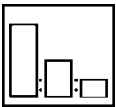
Very hot conditions or large equipment

EXR40 Epoxy Reducer Extra Slow

Extreme hot conditions or large equipment

EXR50 Epoxy Reducer Ultra Slow

MIXING RATIO BY VOLUME



PRODUCT

PARTS

EX-428 Pack A

4

Hardener

1

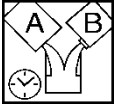
Reducer

0 - 20%

Mix Pack A and Pack B. Stir thoroughly and allow 10 minutes induction time.

Add reducer and stir thoroughly.

POTLIFE



Catalysed material is useable for up to 6 - 8 hours at 25°C

SPRAYGUN



CONVENTIONAL

SETUP

- GRAVITY 1.8 mm - 2.0 mm
- SUCTION 1.8 mm - 2.0 mm

SPRAY PRESSURE

- CONVENTIONAL 3.1 - 4.5 bar (310 - 450 kPa, 45 - 65 psi)

APPLICATION & FLASH OFF



SPRAY: CONVENTIONAL, HVLP

- APPLY 1 - 2 WET, EVEN COATS.

Allow 10 - 15 minutes flash off between coats at 25°C.

Note: Do not apply at temperatures less than 10°C, when the relative humidity exceeds 85%, or if the surface temperature is within 3°C of the dew point.

Product is suitable for brush application on small surface areas.

BRUSH AND ROLLER APPLICATION

Mixed material is ready for use for brush application. Apply full even coats. Brushing may be eased depending on weather conditions by the addition of EXR30 Epoxy Reducer Slow or EXR40 Epoxy Reducer Extra Slow.

DRYING TIMES



AIR DRY (25°C)

- TOUCH DRY: 1 - 2 hours
- HARD DRY: 16 hours

Note: Drying of EX-428 Primer is very dependent on temperature and humidity and it will not cure at temperatures below 5°C, or within 3°C of the dew point.

RECOAT



Can be re-coated as wet on wet application after 30 minutes minimum dry time at 25°C.

After maximum recoat time of 16 hours at 25°C primer must then be sanded before topcoating.

TOTAL DRY FILM BUILD

40 - 75 µm

TECHNICAL PARAMETERS

VOLUME SOLIDS

45 - 50%, depending on colour

COVERAGE (RFU)

~6.6 metres squared per litre (m²/L)

RESISTANCE PROPERTIES

WEATHERING

Excellent when topcoated

ABRASION

Excellent

SOLVENT

Resists splash and spillage for common solvents

CHEMICAL

Good to dilute acids, excellent to alkalis

HEAT

Satisfactory up to 120°C Dry Heat

TOXICITY

Non toxic in dry films

EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.

HEALTH AND SAFETY

Please refer to Safety Data Sheet (SDS) for full Health and Safety details, as well as product can labels.

This product is for professional use only.
The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his or her own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
Drying times quoted are average times at 25°C/77°F. Film thickness, humidity and shop temperature can all affect drying times.

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