



METALFIX

Rust Converting Primer

Product Information Sheet (PIS)

Product Description

PHOENIX PAINTS METALFIX is a single pack water-based rust-converting primer which is designed for application onto rusted surfaces to form a non-toxic film. The product converts the rust layer into a metal phosphate and simultaneously cures into a tough abrasion-resistant skin which is impervious to further rusting. The coating will operate from minus 40 degrees Centigrade to approaching 1000 degrees Centigrade, and, if required, may be overcoated with most other top coats, whether oil or water based.

(NOTE: It is strongly recommended to do a test patch first when using a new top coat, before proceeding with the total project.)

NOTE: that the **METALFIX** (and the **METALFIX 1000**) are made in the colours of Ferric Red, Black, and White (which can be tinted to a Light Grey, etc.) However the Ferric Red version is the highest performance version and should be used in all circumstances wherever possible, especially in hostile environments. The Black version has slightly better high temperature performance, and the White version can be used for interior and low duty applications, but note the above advice.

Product Features and Benefits

Non-toxic in the dry state, can be brushed, sprayed or rolled, and no solvents are required (water clean up). May be used safely in confined spaces. No sandblasting is necessary, the paint has a quick recoating time, and the resulting paint film is highly fire retardant (See Test Certificates for A.S. 1530.3 simultaneous determination of Ignitability, Flame Propagation, Heat Release and Smoke Release).

Product Characteristics

Shelf Life	Max 10 years (stored in cool, dry, dark conditions)
Specific Gravity	1.40
VOLUME SOLIDS	45%
Full Cure @ 25°C, direct sunlight, low humidity	Touch Dry: 15 Mins Hard Dry: 90 Mins Cured: 24 hours for single pack 48 hrs for 2 pack top coats
Colours	Ferric Red, Black, White
Pack Sizes	1, 5, 10 and 200 Litre
Application	Brush, Spray, or Roller
Clean up	Water
Recommended Wet Film Thickness	135 microns/coat (minimum 2 coats)



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Coverage rates	Typically 7 Square Metres per litre @ 60 microns Dry Film Thickness
Flash Point	N/A

WARNING: DURING COLD WEATHER all Phoenix Paints products must be warmed to 25° to 30° degrees C before the coatings are applied.

If any Phoenix Paints product is being used in conjunction with any other paint or coating we strongly advise to carry out a test patch first to ensure that no adverse reaction occurs.

Surface Prep and Product Application

Remove any flaking or thick rust using a hand wire brush, but leave behind the layer of rust directly attached to the underlying steel.

Remove any oil or grease contamination with undiluted Phoenix FLOORPREP, and rinse off with clean water and allow to dry.

Apply the **METALFIX** using a Brush, Roller, or Spray (airless or conventional).

For bad rust, apply the **METALFIX** in one thick coating, approximately 3-4 m² per litre.

When spraying, reduce the yield stress in the paint by stirring with a high speed stirrer (e.g. a mixing blade in an electric drill) which lowers the viscosity to that of a conventional paint.

If the paint is cold, warm to at least 25 degrees Centigrade by immersing the container in hot water and stirring occasionally.

Use large tip size and avoid adding water.

For surfaces which exhibit both severe and light rusting, after the preparation outlined above, apply the **METALFIX** over the areas of severe rust, and after allowing the paint to fully dry and cure, apply a coat of **METALFIX 1000** over the entire surface.

Do not apply **METALFIX** over lightly or non-rusted surfaces, since the paint will attack the steelwork and this can lead to rust staining through the final paint film.