

## TECHNICAL DATA SHEET

### TDS 173

### UNITAS RED OXIDE METAL PRIMER

#### Description:

An alkyd-based primer containing corrosion inhibiting zinc phosphate and suitable for general use on steelwork. It dries to a matt finish and can be overcoated with conventional air drying, white spirit based, oxidisable systems but not with two-pack systems, chlorinated rubber or quick drying alkyd finishes

<u>Colour:</u>	Red oxide
<u>Drying Times @ 20°C:</u>	Surface Dry: 1-1.5 hours Hard Dry: 3-4 hours Overcoating: 16 hours
<u>Covering Capacity:</u>	Theoretical: 14 sq. m/l at 25microns dry film thickness. Practical: Figures will be lower and will depend on type of structure, surface profile, application technique and prevailing conditions.
<u>Wet Film Thickness:</u>	72-75 microns (2.8-3.0 mils)
<u>Dry Film Thickness:</u>	25 microns (1.0 mils)
<u>Solids by Volume:</u>	35% BS. 3900 Part A10 1976 and ASTM D2697-73
<u>Flash Point:</u>	>41°C (105°F)
<u>Thinners:</u>	TH.1
<u>Substrates:</u>	Steel
<u>PLEASE NOTE:</u>	The above figures are given as a guide only and may vary with temperature and method of application.

#### Application:

Brush or conventional spray.

For conventional spray the primer may be thinned with up to 10% TH.1 thinner.

Care must be taken to ensure that all edges, corners, nuts and bolts are adequately coated. Application should be carried out when the ambient temperature is below 7°C (45°F) or where the steel temperature is less than 3° above dew point.

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Overcoating:

May be overcoated with any conventional air-drying, white spirit based, oxidisable systems but not with chlorinated rubber systems or quick drying alkyd systems

Surface Preparation:

Can be applied to a wire brushed substrate. However, for optimum results blast cleaning to SA 2.5 Swedish Standard (second quality BS4232) is recommended. The surface profile should not exceed 100 microns. Grease and oil on the steel should be removed by solvent (white spirit) prior to blast cleaning. Where blast cleaning is to be carried out prior to fabrication and a prolonged interval between blasting and painting is envisaged then it is advisable to apply a pre-fabrication primer (Epidox 2 Epoxy Zinc Phosphate Blast Primer TDS. 510) which will protect steel through fabrication processes. Special attention must be paid to edges, corners and weld areas. Weld should if necessary be ground flush and all slag and weld spatter removed.

Health & Safety Precautions

Toxicity:

The solvent vapour is not highly toxic but inhaling the concentrated vapour for any length of time can result in giddiness or nausea. The effects are temporary.

Fire Risk:

The solvent vapour is inflammable and no naked lights of any kind should be allowed in the vicinity.

SMOKING MUST BE PROHIBITED

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IMPORTANT: THIS PRIMER MUST NOT BE USED UNDER FIRE PROOFING VERMICULITE CEMENTS.

The information contained herein together with the suggestions for use and application is, to the best of our knowledge, true and reliable. Since conditions of application and use are beyond our control, no warranty is expressed or implied in respect of these recommendations or products. Users are recommended to carry out confirmatory tests to check the suitability of products for their specific use.