
PRODUCT DESCRIPTION

A single component, water based, self-cross-linking pure acrylic emulsion zinc phosphate primer for steel and galvanized surfaces

INTENDED USES

As a superior quality anti-corrosive primer for mild steel and galvanized steel to protect from rust and corrosion particularly in humid and polluted areas.

As a primer on tightly adherent rust to stop any further rust from developing.

As an adhesion promoting primer on mild steel and galvanized steel for subsequent topcoats.

CHARACTERISTICS

- Easy to use one component product that can be brush, roller or spray applied
 - Provides excellent adhesion for subsequent coats
 - Will accept most water based, solvent based and solvent free topcoats
 - Protects substrate from corrosion
 - Excellent penetration and adhesion to clean, firm rust and weathered galvanized iron
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PRODUCT INFORMATION

Colour	Red Oxide, Grey and other colours on request
Finish	Matt
Density	1.25 kg
Volume Solids	35%
Mass Solids	56%
Typical Film Thickness	35-70 microns DFT (100-200 WFT)
Theoretical Coverage	▪ 10.00m ² /litre at 35 microns dft allow loss factors
Method of Application	Brush, Roller or Spray
Temperature Resistance	Dry continuous – 80°C
Number of Coats	2 or as required to ensure good coverage and penetration of rusted substrates
Flash Point	Non-flammable
Viscosity	+/- 85-90 KU

Drying Information	0°C	5°C	15°C	25°C	40°C	45°C
Touch Dry	-	-	-	60 min.	-	-
Hard Dry	-	-	-	8 hrs.	-	-
Full Cure	-					

Overcoating Data – See Limitations

Substrate Temp.	0°C	5°C	15°C	25°C	40°C	45°C
Minimum Water Based	-	-	-	8 hrs.	-	-
Minimum Solvent Based	48 hrs.					
Maximum	72 Hours					

Note

*See Speccoats™ Definitions and Abbreviations

*a curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing. The figures quoted above have been determined at the quoted temperature and 50% RH. If overcoat limit is reach the coating must be lightly abraded prior to re-coating.

CERTIFICATIONS

Consult Speccoats™ Technical Representative for details

SYSTEMS AND COMPATIBILITY

Consult Speccoats™ Technical Representative for coating system solutions.

TINT BASES

The tint base containers are short filled to levels which are specific for each tint base to allow for a calculated volume of Tinters/colourant to be added. The volume indicated on the container is only achieved after the addition of all prescribed colourants as per the formulation

The tint base and the Tinters are not recommended for use by themselves. A finished product is only produced once the prescribed quantities of Tinters have been mixed thoroughly with the tint base

When mixed to a finished product its technical features and product information will comply with the relevant Product Technical Data Sheet

Only Speccoats™ Tinters are to be used with Speccoats™ Tint Base

TINTING PROCEDURE

Select the required colour from the RAL, NCS colour cards. Colours from 3rd party suppliers can be matched to the nearest NCS or RAL colour using the X-Rite Colour Scan machine. Once colour has been decided select the relevant recipe and product tint based from the software or formula book provided.

All Speccoats™ Decorative tint bases are in a clear form, though the product may appear milky in its un-mixed form.

The Speccoats™ Tinting system is formulated by mass.

Once Tinters have been added, shake in a mechanical shake for 5 minutes.

Decorative Coatings

SURFACE PREPARATION

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination.

New Work

Mild Steel: Degrease with Hydrosolve degreaser. Rinse thoroughly with water. Remove any rust by coarse sanding, mechanical grinding etc. or Rust Remover Gel. Prime general surface same day using Ultimate Anti-Corrosive Primer before oxidation of the steel occurs

Galvanized Steel: Clean with Galvanized Iron Cleaner to achieve a water break free surface. Rinse thoroughly with water to remove all traces of cleaner. Prime same day with Ultimate Anti-Corrosive Primer.

APPLICATION

Mixing

Material is supplied in plastic containers. This is a one component product and does not require a hardener.

Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.

No thinners should be added to this product

APPLICATION

Pot Life

No Limitation

Thinner

Water

0-10% for Air Spray only.

Airless Spray

Recommended

Tip range 11-17 Thou. Pressure at the tip should not be less than 170 bar (2500 PSI)

Air Spray

Recommended

Gun

Pressure/Gravity Feed

Fluid Tip

1.1 mm to 1.6 mm

Brush/Roller

Recommended

Typically 30-50 microns can be achieved

Work Stoppage

Thoroughly flush all equipment with **Water**. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered and viscosity re-adjusted before use.

Clean Up

Clean all equipment immediately after use with **Water** It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.

Decorative Coatings

Good airflow is essential around the object once coated.

If the relative humidity limit of 70% is exceeded, drying and overcoating times will be severely extended.

Application below the minimum film forming temperature of the coating and/or in poor ventilation will result in poor film coalescence and a powdery cracked film which will require removal prior to re-application.

Environment	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	7°C*	10°C	No lower limit
Maximum	40°C	45°C	85%

*Or 3°C above the dew point

LIMITATIONS

- Moisture content of substrate may not exceed 15%
- Under-application or lower than recommended film thickness will result in loss of adhesion. Minimum film thicknesses must be strictly adhered to in order for the film to coalesce. Over-application will result in mud-cracking, longer drying times and loss of coating performance.
- Do not apply at temperatures below 10°C or if the temperature is likely to fall below 10°C within 4 hours after application
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Speccoats™ representative for specific recommendations
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Speccoats™ makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

UNIT SIZE

Tint Base	
4.50 Lt	5 Lt
18.00 Lt	20 Lt

STORAGE

Shelf Life	12 months at 25°C – from date of manufacture
	Subject to inspection thereafter. Store in dry conditions out of direct sunlight.
	Store at temperature between 5°C and 35°C

IMPORTANT NOTE

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

PRECAUTIONS

For complete safety and handling information please refer to the appropriate **Safety Data Sheets** prior to using this product.