



CORPORATE PURCHASING SPECIFICATION

AA56105

Rev No. 07

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CHEMICAL RESISTANT EPOXIDE RED OXIDE ZINC PHOSPHATE PRIMING PAINT

1 GENERAL

This specification deals with the quality requirements of two pack Chemical resistant Epoxy Based Priming Paint pigmented with Red Oxide Zinc Phosphate.

2 APPLICATION

The paint shall be used as a primer in the painting system for protection of steel work, both under marine and inland outdoor conditions.

3 COMPLIANCE WITH NATIONAL STANDARDS

The material shall comply, in general, with the following national standards and also meet the requirements of this specification

IS 14506-1998 : Epoxy red oxide zinc phosphate weldable primer, two component

4 COMPOSITION

The paint consists of two components i.e. base and accelerator. The base contains epoxy binder suitably pigmented with red oxide and zinc phosphate and extenders. The accelerator is polyamide and solvent to cure the base of the paint system.

5 MIXING RATIO

The components of paint are to be mixed as recommended in the product data sheet supplied by the manufacturer of the paint: The type and content of the binding material as determined by infra-red spectroscopy or thin layer chromatography shall be strictly adhered to the "Type approved sample".

6 COLOUR

Red oxide.

7 FINISH

Smooth and matt.

8 FREEDOM FROM DEFECTS

The base of the paint system shall remain free from defects like hard setting of pigments, skinning and livering when kept in closed container till its shelf life.

9 SAMPLING

As per IS 101.

Revisions:

As per clause 44.5.a) of MOM of MRC-CPO+NM

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(CPO+NM)

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10 TECHNICAL REQUIREMENTS

Unless otherwise specified, the sample (mixed paint) shall be tested in accordance with IS 101.

10.1

Mass per 10 litres

12.0 kg, minimum

10.2

Consistency

Paint shall be mixed so that it produces a smooth and uniform paint suitable for application.

40 - 60 secs by FC No.4 at 27± 2°C.

10.3

Drying time

a) Soft dry : 4 hours, maximum
b) Hard dry : 16 hours, maximum

10.4

Volatile matter, percent by mass

30.0, maximum

10.5

Pigment content, percent by mass

40.0, minimum.

10.6

Volume solids, percent

35.0, minimum.

10.7

Dry film thickness per coat

25.0 microns, minimum.

10.8

Flash point

20°C, minimum.

10.9

Pot life at ambient temperature (Annexure-A)

4.0 hours, minimum.

10.10

Zinc phosphate, percent by mass on pigment (Annexure-B)

16 percent by mass, minimum.

10.11

Scratch Hardness (IS 101, Part 5/Sec. 1)

After the film is cured for 7 days and tested under of 2000gm, no such scratch as to show the bare metal shall be produced.

10.12

Flexibility and Adhesion (IS 101, Part 5 /Sec. 2)

The film shall not show sign of damage detachment or cracking when tested after 4 days of curing.

10.13

Type Test

Salt spray test for 300 hours (IS 101, Part 6 /Sec. 1):

The test panel prepared from this material shall show no signs of corrosion after continuous exposure for 300 hours in salt spray cabinet.



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