INTRODUCTION

ARCOZINC RICH PRIMER is a high solid two pack zinc rich primer based on epoxy resin, zinc dust and specialty additives. Zinc dust primers may be used to prevent corrosion of iron and steel in two ways.

(A) Active protection: Galvanic protection (Cathodic / Sacrificial)
(B) Passive protection: Protection by means of a barrier (Zinc oxides / binder)

Arcozinc combines the galvanic characteristics of a zinc coating with the barrier protection of a paint. It offers an excellent active and passive protection due to the special zinc on one hand and due to the barrier provided by both zinc & the binder on the other hand.

(A) Active protection: Because ARCOZINC RICH PRIMER has greater than 90% of zinc in its dry film, it provides excellent cathodic protection to steel. Different tests (600 hrs. salt spray test, humidity test) prove that in very aggressive circumstances, the zinc in ARCOZINC RICH PRIMER sacrifice itself, protecting the metal surface.

(B) Passive protection: As the ARCOZINC RICH PRIMER oxidizes, a layer of zinc salts slowly builds up on it, offering a barrier protection. Next to this, a supplementary barrier protection is provided by the binder in ARCOZINC RICH PRIMER. The binder reduces the disintegration of the zinc.

Scope: It can be used on Iron / Steel only (i.e. M.S.C.S. etc.)
TECHNICAL DATA

Base: High solid epoxy resin with high purity zinc dust greater than 90%
Hardener: Polyamide / Polyamidoamine based
Colour: Grey (Standard)
Volume Solids: 50 - 60%
Specific Gravity at 25°C: 2.0 - 2.3 gm / cc
Dry Film Thickness (DFT): 40 - 50 microns / coat
Mixing Ratio (Base to Hardener): 4 : 1 (By volume)
Pot life at 25°C: 45 - 60 minutes
Cure at 25°C: Tack free 2 - 3 hrs.
        Full cure 7 days
Coverage: 7 - 8 sq. mtr. / ltr. / coat
          (This may vary depending upon environmental conditions, work
          schedule and skills of applicator)
Overcoating time: After tack free
Shelf life: 6 months

APPLICATION DETAILS

Surface Preparation:
SA 2.5 / ISO 8501 / SSPC SP - 10 / NACE 2 (It covers the requirement of near white blast cleaning of metal surface by the use of abrasives).
Degreasing is done to remove oil and greases. Organic solvents, alkaline solutions, steam, hot water detergents will completely remove greasy substances.

Environmental Conditions: Relative humidity < 85%  •  Atmospheric Temperature > 15°C
Cleaning Solvent: CT - 1
Thinner: ET - 1

ARCOY INDUSTRIES (INDIA) PVT. LTD.
Your partners in corrosion prevention

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