PROTECH
COATINGS & CONSTRUCTION CHEMICALS

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PROZINC R2O

Anti-corrosive two Components Polyamide Cured Zinc Rich Epoxy Primer.

DESCRIPTION

PRO ZINC R2O is a two packs cold curing zinc rich epoxy primer and is designed as an anti-corrosive quick drying weldable primer for various paint systems. It can be over coated after short intervals.

COLOURS AND GLOSS

Dark and light grey color - matt

PROPERTTIES & BASIC DATA AT 23°C

Specific Gravity	2.2 ± 0.13
Solid content	65± 2 % by volume
Flash Point	26^{O}C
Application method	Airless, spraying, roller stiffed brush
Pot life	8 hours
Dry to recoat at 23^{O}C	Min. 4 hours, Max. 2 days
Fully cured at 23 ^{O}C	7 days
Temperature	Dry heat up to +150 ^{O}C
Abrasion resistance	Please refer to **PROTECH** resistance table.
Chemical resistance	Please refer to **PROTECH** resistance table.

ZINC CONTENT

PRO ZINC R2O has more than 80 % of zinc content of dry film

WHERE TO USE

- All type of electrochemical cathodic protection to provide excellent protection against corrosion for iron, re-bars.
- Tank coating
- Steel structures.

ADVANTAGES

- Excellent adhesion to steel.
- Easy to use pre weighed pack.
- Excellent rust inhibiting properties.
- Excellent adhesion between reinforcement bars & concrete.
- Resistant to water.
- Resistant to weathering.
- Resistant to mechanical wear.

SYSTEMSPECIFICATION

PROTECTIVE COATINGS

INSTRUCTIONS FOR USE

- No thinner to be added more than recommended.
- Excess thinner addition will leads to very thin DFT related to wet film thickness applied
- Excess thinner addition will slow down curing and reduce anticorrosion properties, durability and adhesion, bonding, mechanical properties, weathering resistance and strengths.

LIMITATIONS AND PERCAUTIONS

- If oxidation has occurred between blasting and application of PROZINC R2O, the surface should be re-blasted to the specified visual standard
- For optimum application properties bring the material to 20-30°C unless specifically instructed otherwise, prior to mixing and application.
- Apply in good weather, temperature of the surface to be coated must be at least 3°C (5°F) above the dew point
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE Section of this data sheet.

RECOMMENDED SUBSTRATE CONDITIONS & TEMPERATURES

- PROZINC R2O can be applied at various weather conditions but ideal applications carried out in a hot weather where the Minimum application temperature is 5ºC.
- Substrate surface temperature must be above 5ºC and at least 3ºC above dew point during application and curing.
- The substrate to be properly prepared and clean.

▪▪2 SURFACE PREPARATION

- As with all coating systems, surface preparation is of prime importance.
- All substrate surfaces must be properly prepared, clean, and free from oil, grease, dust, rust or any loosely adhering material.
- high pressure of fresh water wash as appropriate, and remove all oil or grease, soluble contaminants, and other detrimental foreign matter
- Remove efflorescence, mineral salts, fungus and form treatment by an appropriate method ((wire brushing, scraping or high pressure detergent/ water blasting).
- For repairing any steel in the repair area should be exposed around its full circumference and thoroughly cleaned to remove all loose scale and corrosion deposits either by mechanical properties like sand blaster or mechanical abrasive like chipping or whip sand blasting or by using a suitable rust remover (PRODERUST)

BLASTING OF FERROUS SUBSTRATE

NEW BUILDING

- Surface should be cleaned to Sa2½ Power tool cleaning to min. St2 acceptable, subject to exposure conditions.

MAJOR REPAIR AND REFURBISHMENT

- Steel surfaces should be blast cleaned to Sa2 ½.
- Surface defects revealed by the blast cleaning process, should be ground,filled with PROPUTTY E, or treated in the appropriate manner
- Oil or grease contamination should be totally removed.
- Please consult PROTECH technical office for further advice on suitability and pretreatment of other metals and alloys.

Mixing:

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- Material is supplied in two containers as a unit. Always mix a complete unit in the portions supplied.
- Agitate Base (Part A) with power agitator to disperse settlement.
- Combine entire contents of Curing Agent (Part B) and mix until a uniform consistency is obtained with Base (Part A) and mix thoroughly with power agitator.
- Avoid to forget base and sides of container.
- Mixing ratio (9: 1) part by weight.
- Once the unit has been mixed it must be used within the working pot life specified
- Handle with care. Stir well before use.

APPLICAION:

Condition during application:

- The temperature of the steel should be min. 5ºC as the curing process at lower temperature will be considerably retarded.
- Do not expose the primer to water, chemicals or mechanical stress before it is fully cured.
- Apply using brush, spray or airless spray.

THINNING:

- Thinning is allowable using special solvent PROTHINNER EP up to 5%.
- Thinning should only take place after the two components have been thoroughly mixed.

1- BRUSH AND ROLLER

Thin if required with 5-10% of PRO THINNER EP

2- CONVENTIONAL AIR SPRAYING

- Use suitable proprietary equipment.
- Thinning may be required.
- Thin with 5-10% of PRO THINNER EP as required.
- Tip size - 2.0 mm
- Tip pressure - 60 psi (0.4Mpa) approximately
- Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with PROTECH thinner PRO THINNER CL

3- AIRLESS SPRAYING

- Thin with 5-20% of PROTHINNER EP as required
- Recommended tip size 0.38 - 0.53 mm approximately
- Total output fluid pressure at spray tip not less than 176kg/cm² (2500 p.s.i)
- Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with PROTHINNER CL

FLASH POINT

26°C for part A
26°C for part B
26°C for MIXTURE

CLEANING

Clean all tools and equipment immediately after use to prevent hard adhesion on tools and blocking of hoses with PROTECH special thinner (PROTHINNER CL).

PACKAGING

PROZIC R2O is available in different sizes 1, 5, & 20 kg two pack (A+B) is the common size.

THEORETICAL COVERAGE

9 m²/lit (0.2 kg./m2)(50 micron) d.f.t (depending on the application and substrate condition.

STORAGE

PROZINC R2O has a shelf life of 24 months if stored in its original unopened packs in a cold, dry and ventilated conditions and free from heat and frost.

HEALTH AND SAFETY:

- All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations.
- Prior to use, obtain, consult and read well the Material Safety Data Sheet for this product and follow all precautionary notices.
- Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.
- This product may contains hazard materials or aggressive solvent.
- In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.
- Take precautions to avoid inhalation of spray mist, skin, mucous membrane and eye contact by the use of safety equipment (gloves, goggles, face masks, barrier creams etc.) and other personal protection.
- If skin comes in contact, it should be thoroughly flushed and washed with fresh water and proprietary cleanser and soap.
- Eyes should be cautiously washed with fresh water or proprietary wash and medical attention obtained.
- Don't use solvents for skin cleaning.
- Equipment and tools to be cleaned immediately after use with PROTHINNER CL.
- Don't dispose of water or soil but according to local regulations.
- PROZINC R2O is class 4 according to health and safety codes.
- Keep labelled until decontaminated.

ADDITIONAL INFORMATIONS

PROTECH provides all type of coatings and construction chemicals which answers the queries of modern engineers for trouble free durable structure.

PROTECH create special and specific products when there are critical applications that require specific requirements (tailor made designs)

PROTECH technical office gives this information and recommendations relating to the application of products in this data sheet representing test results & practical experience obtained under a good and controlled conditions when properly stored, handled and applied under normal condition.

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However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice

PROTECH data are correct to the best of our knowledge and experience of products.

The differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose.

All orders are accepted subject to our current terms of sale and delivery.

PROTECH users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

PROTECH technical services department is ready to provide our customers with more information and after sales support to assist our customers in a proper application, so don't hesitate to consult us