Material Safety Data Sheet

ZINC BASE COAT

Zinc Rich Epoxy Powder coating

Product Code	**EP 3913**

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Product Description

Zinc Base Coat is a zinc filled Epoxy Thermosetting powder coating, designed as a rust inhibitor / primer for ferrous metals.

Zinc Base Coat can be used as a Functional finish coat in some situations but primarily designed as a base coat for subsequent finishing with powder or liquid topcoat..

SECTION：Ⅲ PHYSICAL DATA			
Physical state	Red powder	Specific Gravity	1.625
Softening point(℃)	＞45℃	Volatile percent by Volume	-
Ignition temperature	＞400℃		
Solubility in water	Insoluble		
Bulk density	400~1000Kg/m^3		

SECTION：Ⅳ FIRE AND EXPLOSION HAZARD DATA			
Flashing point(℃)	-	Flammable Limits	-

Extinguishing Media：Recommended：Alcohol resistant CO_2blanket, Water spray/mist
Not to be used high pressure insert gas(e.g. CO_2), water jets.

Recommendations：Fire will produce dense black smoke containing hazardous products of combustion.
Exposure to decomposition products may be a hazard to health.
Appropriate self-contained breathing apparatus may be required.
Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting measures to enter drains or water courses

Explosion limit of a dust/air mixture：30~90g/m^3 (Recommended limited value：10g/m^3)

SECTION：Ⅴ HEALTH HAZARD DATA

Threshold limit value：Total inhalable dusts：10 mg/m^3 for 8hr
Respirable dusts：5 mg/m^3

Effects of overexposure：
Eye contact：causes eye irritation
Skin contact：cause localized skin irritation
Inhalation：dust may be harmful, if inhaled

SECTION : VI FIRST AID MEASURES

Eye contact：
Flush eyes immediately with plenty of water for at least 10 minutes. Seek medical advice.
Skin contact：
Remove contaminated clothing. Wash skin thoroughly with soap and water.
Do not use solvent or thinners
Inhalation：Move into fresh air. Apply artificial respiration and other supportive measures as required. If needed, seek medical advice.
Ingestion：Do not induce vomiting , see a doctor as soon as possible.

SECTION：VII STABILITY AND REACTIVITY

Stable under the recommended storage and handling condition.
In a fire, hazardous decomposition products such as smoke, carbon and monodioxide, carbon dioxide and oxides of nitrogen may be produced

SECTION：VIII SPILL OR LEAK PROCEDURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing dust.

Refer to productive measures listed section Ⅷ. Contain and collect spillage's with an electrically protected vacuum cleaner or by wet brushing and place in a closed container for disposal in accordance with waste regulations

Do not use dry brush as dust clouds or static can be created. Do not allow to enter drains or watercourse. if the product enters drains or sewers the local water company should be contacted immediately；in the case of contamination of streams, rivers or lakes, contact the local Environment agency.

SECTION：IX PERSONAL PROTECTION

Persons with a history of respiratory or allergic responses should only be exposed to, or handle this product under appropriate medical supervision.

Personal protection：All personal protective equipment, including respiratory protective equipment used to control exposure to hazardous substances must be selected to meet the requirements of the local regulations.

Respiratory Protection： Air-fed respiratory protective equipment should be worn When this product is sprayed if the exposure of the sprayer of other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved

Hand protection: where skin exposure may occur, advice should be sought from glove suppliers on appropriate types.

Barrier creams may help to protect exposed area of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred

Eye protection: Eye protection designed to protect against exposure to dusts should be worn when where there is a likelihood of exposure

Skin protection: Cotton or cotton/synthetic coveralls or coveralls are normally suitable. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder is avoided.

SECTION：X HANDLING AND STORAGE

Handling：

Precautions should be taken to the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Electrical equipment and lighting should be protected to appropriate standards and to prevent dust coming into contact with hot surfaces, sparks other ignition surfaces.

Keep the container tightly closed. Exclude sources of heat and open flame

Avoid the inhalation of dusts.

Smoking, eating and drinking should be prohibited in areas of storage and use.

Always keep in containers made of the same material as supply container.

Good housekeeping standards and regular safe removal of waste materials will minimize the risk of spontaneous combustion and other fire hazards.

The product may charge electrically. Use earthling leads when transferring from one container to another.

Operators should be wear anti-static footwear and clothing and floors should be electrically conductive.

The Manual Handling Operations Regulations may apply to the handling of containers of this product.

Refer to the guide weight indicated on the container when carrying out assessments.

Storage：

Store between 5 and 25℃ in a dry, well ventilated place away from source of heat, ignition and direct sunlight.

No smoking. Prevent unauthorized access. Containers which are opened should be properly resealed and kept upright to prevent leakage.

SECTION：XI TOXICOLOGICAL INFORMATION

Chemical name：103 medium chrome yellow as a human carcinogen. ACGIH 0.05mg/m3 OSHA 0.05mg/m3

Colors containinig Lead and/or Chromate overexposure to Lead may result in damage to the blood-forming, nervous, urinary, and reproductive systems (including embryotoxic effects). Symptoms include abdominal discomfort or pain, constipation, loss of appetite, metallic taste, nausea, insomnia, nervous irritability, weakness, muscle and joint pains, headache and dizziness.

Chromates are listed by IARC and NTP. Although studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, available evidence indicates that Lead Chromate (Chrome Yellow)) **DOES NOT** present this hazard.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to

the liver, urinary, blood forming, cardio-vascular, and reproductive systems.
and nervous system damage.
Keep out of the reach of children. OTHER PRECAUTIONS Certain colors contain Lead (See TABLE and PRODUCT LABEL). Do not apply Lead-containing colours on toys or other children's articles, furniture, or any interior or exterior surface of a dwelling or facility which may be chewed by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.

β-hydroxyalkyl amide no carcinogen harmful if swallowed ,inhaled ,or absorbed through skin. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. LD50 (oral,rat):>5000mg/kg
LD50(dermal,rabbit):>5000mg/kg

Coating powders can cause localized skin irritation in folds of the skin or in contact with tight clothing.

SECTION：XII ECOLOGICAL INFORMATION

Chemical name： （EC-50：100mg/L daphnia magnna straus 1820）
The product should not be allowed to the drains or water courses or deposited where it could affect ground or surface waters.

SECTION : XIIIDISPOSAL CONSIDERATIONS

Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage systems
Uncleaned packaging: Disposal should be done according to official regulations.

SECTION : XIV TRANSPORT INFORMATION

DOT regulations (Hazard class: Non Regulated)
Maritime transportation IMDG (Marine pollutant: No)

SECTION : XV REGULATORY INFORMATION

This product is determined as not being dangerous according to the requirements of the Chemicals (Hazard information and Packaging) Regulations.
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.

SECTION : XVI OTHER INFORMATION
The information in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.