YASMO MISR
CHEMICALS FOR CONSTRUCTION

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

EPICHOR SP220

TECHNICAL DATA SHEET

1.0 Description:

- Zinc rich two-component solvent base epoxy resin, mainly used as a steel primer.
- Excellent anticorrosive coat to steel.
- Its hardener is reactive polyamide.
- Excellent adhesion to steel and concrete substrates.
- Excellent impact resistance.
- Long pot life that enables easier application.
- Does not affect the bond strength between steel and concrete.

2.0 Uses:

- Primer for steel structures.
- Primer for Steel reinforcement for repairing works.
- Primer for Steel equipment and machinery.
- Primer for Steel tanks, Trucks, Steel bridges & cars.

3.0 Approval & Certification:

Bond to steel	: ASTM B117, ASTM D4541
Salt spray test	: ISO 2409

4.0 Colours:

Gray colour

5.0 Product Data:

Solid Content	: 75	%±1
Bond to steel	: 2.52	N/mm^2
Salt Spray Test	: Rust grade = 1 (240 hours in 5% NaCl Type N.S.S – ASTM B117, ISO 2409	

Notes:

- *All above data is for the final mixed components.*

6.0 Film thickness per coat:

Wet Film Thickness	: 135 - 160	microns
Dry Film Thickness	: 100 - 120	microns
Consumption (R+H)	: 250 - 300	gm/m^2/coat (For min protection G30)

Consumption according to required Protection Grade:

Coating Grade	Oz/ft^2	gm/m^2
G90	0.9	850
G60	0.6	600
G30	0.3	300

Note:

The number of coats needed to achieve required protection grade depend on different methods of application whether it is by roller, brush or spraying.

DATE OF ISSUE: 06/10/2025
THIS ISSUE DATE CANCELS ALL PREVIOUS ISSUED TDS
FOR MORE INFORMATION, PLEASE CONTACT OUR HEAD OFFICE, 01227799520

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

7.0 Surface Preparation:

- For old surfaces, remove all weak layers or stains that can Prevent or weaken the coating adhesion.
- If hydrocarbon products, remove with an alkaline detergent. Don't use thinner or any other organic solvents.
- Agitate the surface to activate the cleaner. Before it dries, wash the treated area using water.
- If old primer exists, make sure that it is compatible and strong enough to accept epoxy primer.
- Remove all Soluble salts as they have a negative impact on the coating systems. performance, especially when immersed.
- Surface preparation and coating should start only after all metal finishing and degreasing of a specific area is complete.
- Make surer to finish all welding and hot works before application.
- After abrasion, remove all residues of corrosion products and abrasive media.
- Surfaces should be dry, clean and treated to epoxy coatings requirements.

8.0 Application Methods:

1. Wear gloves & eye goggles before working with epoxy & be sure of good ventilation.
2. Add resin to hardener in a suitable container and mix well.
3. Dilute the component using its solvent N.X to reach the desirable consistency.
4. Using a brush, woollen roller, or spray machine for applying EPICHOR SP220 within a period that should not exceed three hours after mixing.
5. Clean tools using solvent ex.: Thinner.
6. Apply the next coat after 24 hrs.

Notes:

- *Make sure that the primer reached all edges, openings, rear sides of stiffeners, scallops etc.*
- *Temperature of the substrate should be min 10°C*
- *Good ventilation should be ensured*
- *The coating shall not be exposed to any spillage or mechanical wear until fully cured.*

9.0 Product mixing Ration by weight:

Resin : Hardener	: 8.0 : 1.0	by weight
Total Weight	: 1, 4	Kg
Container	: Sealed pre weighed Steel Containers	

Notes:

- *The product components shall not be divided as the total weight of components shall be used.*
- *Slow Mechanical Mixing is recommended.*
- *Mixed components should be transferred to a third container and remixing should take place to reach ultimate results.*

10.0 Pot life, Drying and curing time:

Initial Curing Time	: 24	hours at 24^{0}C
Final Curing Time	: 7	days at 24^{0}C
Pot Life	: 180	min. at 24^{0}C
Walk on Time	: 48	hours at 24^{0}C
Recoating	: Recoating takes place according to needed protection.	

21 Takseem el Awkaf Sawah Square behind Kobba palace
Tel: 002 02 24535678 24535679 24538986 01227799520

11.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

12.0 Handling of Epoxy Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

13.0 Compatibility:

- Recoating can be epoxy, alkyd or polyurethanes products.

14.0 First aid Measures:

- General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air.

15.0 Storage:

- Store in steel containers, above ground, and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat &in dry, cool, and well-ventilated place.