

# EPOXY ZINC PRIMER

## ZINKY #200M-HB

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### 1. DESCRIPTION

ZINKY #200M is a two-component zinc primer, based on epoxy resin.

The cured film is excellent in anti-corrosion, oil and weather resistance, adhesion and other physical properties.

It is used as a shop primer as well as other purpose anti-corrosive primer in the field of steel structures.

### 2. USES

Shop primer for construction steel ship plate, bridges, sectional steel, car plate and other steel members & plate needing flame cutting and welding after priming.

### 3. PHYSICAL CONSTANTS

1) Color and gloss	: Grey-flat
2) Solids by volume	: $55 \pm 2 \%$
Solids by weight	: $80 \pm 2 \%$
3) Specific gravity	: $2.0 \pm 0.1$ (kg/l)
4) Theoretical spreading rate	: $18.33 \text{ m}^2/\ell - 30 \mu\text{m}$
5) Flash point	: $10 \text{ }^\circ\text{C}/50 \text{ }^\circ\text{F}$ (closed cup)
6) Dry to touch	: 15 ~ 30 minutes (at $20 \text{ }^\circ\text{C}/68 \text{ }^\circ\text{F}$ ) - $30 \mu\text{m}$
Fully cured	: 1 week (at $20 \text{ }^\circ\text{C}/68 \text{ }^\circ\text{F}$ )
7) Shelf life	: 6 month (at $20 \text{ }^\circ\text{C}/68 \text{ }^\circ\text{F}$ )
8) VOC	: $400 \text{ g}/\ell - 3.3 \text{ lbf}/\text{gal}$

### 4. APPLICATION DETAILS

1) Mixing ratio	: Base to hardener 90 : 10 (by weight)
	: Base to hardener 4 : 1 (by volume)
2) Thinning ratio	: 10 ~ 30 % (volume) airless spray
3) Thinner No.	: Thinner 600
4) Pot life	: 18 hours (at $20 \text{ }^\circ\text{C}/68 \text{ }^\circ\text{F}$ )
5) Nozzle orifice	: 0.017 ~ 0.021 inch
Nozzle pressure	: 150 bar/2100 PSI

### 5. SURFACE PREPARATION

Abrasive blasting to SSPC - SP - 10 (SIS, Sa 2½ )

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## 6. PAINT PREPARATION

- 1) Please mix ZINKY #200M with the hardening liquid, stirring the main liquid well, and then further stir for uniformity in its entirety.
- 2) The main liquid should not be directly diluted with thinner as it may occasionally be in the form of an insolvent.
- 3) 90 : 10 weight mix ratio of components is achieved precisely at the case of mixing full volume from each can will be done. Erroneous combination of the paints may cause unsatisfactory film formation and/or lack of its typical properties.
- 4) Mixed paint of main liquid and hardening liquid would become "cured" at time elapse long. So premixing of components should be done at optimum amount for use. Mixed paint should be used within 18 hours at 20 °C.

## 7. OVERCOAT INTERVALS

- 1) At 20 °C ZINKY #200M would dry set to touch within 5 minutes, but overcoat which included strong solvent shall be done 24 hours after sprayed.
- 2) Baking or force drying of ZINKY #200M is also effective to cure, E. G. at 130 °C in 20 minutes for overcoating.

## 8. APPLICATION CONDITIONS

- 1) As epoxy can be well hardened at the time of low temperature (on a day when the temperature does not exceed 5 °C), it had better not be used except when the compulsory drying is possible.
- 2) Another 4-5 days(20 °C/68 °C) will be necessary subsequent to complete dryness of the painted film of bridge reaction there of in a strict sense, Especially as regards the application under severe environment, the stated matter requires your special attention to make epoxy give full effects.

## 9. PRECAUTION

This product is combustible.

- 1) Keep away from heat and open flame.
- 2) Keep container closed.
- 3) Use with adequate ventilation.
- 4) Avoid prolonged breathing of vapor.
- 5) Avoid prolonged and repeated contact with skin.
- 6) Store in a cool and dark place.