

# ZINC PHOSPHATE EPOXY POLYAMINE ADDUCT PRIMER

## RANA 857 P

### Product information

- 1-Poly amine adduct epoxy primer.
- 2-Anti corrosive action .
- 3-Good wetability to substrate.

### Physical data

Colour:	White
Finish:	Flat
Flash point:	
resin:	34 <sup>°</sup> c
cure:	36 <sup>°</sup> c
solvent:	28 <sup>°</sup> c
Volume solids:	62 ±2%
D.f.t:	60 - 70 microns
Specific gravity(mixed):	1.45 ± 0.05gr/cm <sup>3</sup>
Theoretical coverage:	10.3m <sup>2</sup> /lit (at 60 μ d.f.t)

Drying time at 25 <sup>°</sup> c:	
touch dry:	5 hrs
dry to handle:	16hrs
full cure:	4 days

Component:	2
Pot life:	3-4 hrs at 25 <sup>°</sup> c:
Mixing ratio(by volume):	
resin:	refer to can label
cure:	refer to can label

Application methods:	conventional spray or airless spray or roller
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Recoat intervals* :	10 <sup>°</sup> c	25 <sup>°</sup> c	40 <sup>°</sup> c
(mild condition) : Min:	15 hrs	6 hrs	3 hrs
**Max:	NONE	NONE	NONE

\*\*Maximum Recoat: Unlimited. Must have a clean, dry surface for top coating."Loose" chalk or salts must be removed in accordance with good painting practice. Drying time is temperature, humidity, and film thickness dependent

Recommended thinner:	RANA THINN 84
Recommended cleaner:	RANA CLEAN 84

Shelf life: 12 months when stored indoors in unopened Original containers at 5 to 40<sup>°</sup>c (cool and dry place).

Curing mechanism: By solvent release and reaction by curing agent and resin

Substrate: Steel

\* : For recoating the surface should be free of dust ,grease and contamination.

### Typical uses

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As a blast primer for heavy duty epoxy systems according to specification.

Other uses are:

Structural steel,machinery,pipes and tank exteriors  
decks,hulls,bottoms and super structures  
of ships,barges and work boats,offshore platforms  
and related structures.

## Application information

This RANA CHEM's product is a poly amine adduct cured zinc phosphate epoxy primer for industrial and marine use.

To obtain the maximum performance for which this product is formulated,strict adherence to all application,instructions, precautions,conditions and limitations is necessary.

## Application equipment

The following equipment is listed as a guide and suitable equipment from other manufactures may be used.

adjustments of pressure and change of tip size may be needed to obtain the proper spray characteristics.

1-Airless spray:standard airless spray equipment having a 28:1 or higher pump ratio and a fluid tip with a 0.457 to 0.660 mm orifice.

2-Conventional spray:industrial equipment with suitable aircap having a fluid tip with a 1.8-2 mm orifice .

3 -Mixer:mixer must be powered by an air motor or an explosion proof electric motor.

4- roller.

## Caution

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- 1-Handle with care.
- 2-Avoid inhalation of possible solvent vapours or paint mist,as well as paint contact with skin and eyes.
- 3-Apply only in well ventilated areas and ensure that adequate forced ventilation exists when paint applies is In confined spaces or when the air is stagnant.
- 4-Always take precautions against the risks of fire and explosions.
- 5-Harmful or fatal if swallowed,immediately seek medical assistance.
- 6-Use fresh air masks and explosion proof equipment.

## Application procedures

- 1-Flush equipment with cleaner before use.
- 2-Stir resin to an even consistency with a power mixer.
- 3-Add cure to resin and continue stirring for 5 minutes.  
Note:since the pot life is limited and shortened by high temperatures ,do not mix more material than will be used in 3-4 hours at 25 °c .
- 4- Thinning with RANA THINN 84 as needed for workability.
- 5-Stir during application to maintain uniformity of material  
And apply a wet coat in even parallel passes after 20 minutes.
- 6-Clean all equipment with cleaner immediately after use.

## Environmental condition

Environmental temperature must be 10-40°C.  
Surface temperature must be at least 3°C above dew point to prevent condensation. At freezing temperature surface must be free of ice and relative humidity below 80 %.

## Surface preparation

Sand blasting to a standard of Sa 2.5 – Sa3 , SIS 05 5900 , ISO 8501-1.