

# M.I.O EPOXY INTERMEDEAT COAT RANA 829 I

## Product information

- 1-Good adhesion to properly pretreated galvanized steel.
- 2-Can be used in systems for atmospheric or water immersed exposure conditions.
- 3-Good abrasion and impact resistance.
- 4-Good adhesion characteristics for subsequent coats.
- 5-Good resistance to industrial or chemical contaminated atmospheric exposure conditions.

## Physical data

Colour:	grey
Finish:	Flat
Flash point:	
Resin:	34°C
Cure:	36°C
Solvent:	28°C
Volume solids:	57±2%
D.F.T:	100-150 microns
Specific gravity(mixed):	1.65± 0.05gr/cm <sup>3</sup>
Theoretical coverage:	6 m <sup>2</sup> /lit (at 100 µ D.F.T)
Drying time at 25°C:	
Touch dry:	2 hrs
Dry to handle:	6-8 hrs
Full cure:	7 days

Component:	2
Pot life:	8 hrs at 25 °C:
Mixing ratio(by volume):	
Resin:	refer to can label
Cure:	refer to can label

Application methods:	conventional spray or brush or Airless spray or roller
Recoat intervals* :	10°C                      25°C                      40°C
(mild condition) : Min:	25 hrs                      12 hrs                      5 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 80
Recommended cleaner:	RANA CLEAN 80
Shelf life:	one year when stored indoors unopened

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Original containers at 5 to 40°C (dry and cool place)

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

Curing mechanism:	by solvent release and reaction by Curing agent and resin
Substrate:	steel ,primed steel, galvanized steel

## Typical uses

- 1-Zinc rich primed steel parts.
- 2-Galvanized steel sheets.
- 3-Steel
- 4-Shop primed steel.

## Application information

This RANA CHEM's product is a micaceous iron oxide coating 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 2 – 2.2 mm orifice .

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

4-Brush or roller.

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### Caution

- 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.
- 6-Harmful or fatal if swallowed,immediately seek medical assistance.
- 7-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 6 hours at 25 °C.
- 4-Thinning with RANA THINN 80 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 %.

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## **Surface preparation**

The surface must be clean and dry .All dirt grease and other foreign materials should be removed .Old primed surface must be smoothly wire brushed.