

RANA MARINE PU 5001

Product information

- 1-Provides excellent durability in industrial and marine environments.
- 2-Excellent uv resistance
- 3-Resistant to water, impact and abrasion.

physical data

Colour:	Customer request
Finish:	Gloss
Flash point:	
resin:	32°C
cure:	25°C
Solvent:	24°C
Volume solids:	56±2%
D.f.t:	50 - 60 microns
Specific gravity(mixed):	1.3.± 0.05gr/cm ³
Theoretical coverage:	11.2 m ² /lit (at 50 µ d.f.t)
Drying time at 25°C:	
touch dry:	3 hrs
dry to handle :	6 hrs
full cure:	7 days
Component:	2
Pot life:	6-8 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
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Recoat intervals* :	5°C	25°C
(mild condition) :	12 hrs	5 hrs
Recommended thinner:	RANA THINN 50	
Recommended cleaner:	RANA CLEAN 50	

Shelf life:	12 months when stored indoors in unopened Original containers at 5 to 40°C (cool and dry place).
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Curing mechanism:	By solvent release and reaction by curing agent and resin
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Substrate:	Primed steel
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*: For recoating the surface should be free of dust ,grease and contamination .

Typical uses

As a finishing coat for protection of structural steel

RANA MARINE PU 5001

in severely corrosive environments where light-fastness and gloss retention are required.

Other uses:

1-Steel structures in chemical and petrochemical industry, power plants,tank farms,waste treatment plants.

2-Decks,boottops,top sides and superstructures of ships, barges and work boats.

3-Piers,offshore platforms and related structures.

important:this product should not be stored above 30°C.

Application information

This RANA CHEM's product is a polyurethane top coat providing excellent protection for steel structures in marine and industrial environments.

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 0.33 to 0.38 mm orifice.

2-Conventional spray:industrial equipment with suitable aircap having a fluid tip with A 1.4-1.6mm orifice .

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

4-Brush or roller.

Caution

1-Handle with care.

2-Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes.

RANA MARINE PU 5001

3-Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint 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.

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 minuts.

Note:since the pot life is limited and shortened by high temperatures ,do not mix more material than will be used in 8 hours at 25 °C .

4- Thinning with RANA THINN 50 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

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.