

TIDE GUARD EPOXY COAT

RANA 980 SV

Product information

- 1- Excellent corrosion resistance.
- 2- Excellent resistance to abrasion and impact
- 3- Excellent resistance to chemical material and water.
- 4- Excellent resistance to oil .
- 5- long lasting splash zone protection

Physical data

Colour:	grey
Finish:	flat , rough
Flash point:	
Resin:	24 [°] c
Cure:	24 [°] c
Volume solids:	100%
D.f.t:	3000-5000 μ
Specific gravity:	1.96 ±0.05 gr/cm ³
Theoretical coverage:	0.3m ² /lit (at 3000 μ d.f.t)
Drying time at 25 [°] c:	
Touch dry:	6 hrs
Dry to handle:	36 hrs
Full cure:	7 days
Component:	3
Pot life at 25 [°] c:	40 min
Mixing ratio (by volume):	
Resin:	refer to label of can
Cure:	refer to label of can
Powder:	refer to label of can
Application methods:	spray
Recoat intervals:	9-24hrs at 25 [°] c
Starter liquid :	RANA START 98
Recommended cleaner:	RANA CLEAN 98
Shelf life:	6 months when stored indoors in unopened Original containers at 5 to 40 [°] c (cool and dry Place).
Curing mechanism:	reaction between components
Substrate:	steel

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Typical uses

As a coating on carbon steel for splash areas of offshore Structures. This coat is suitable for decks, walkways, mudroom floors on offshore structures.

Application information

This RANA CHEM's product is a three component solvent free epoxy coating.

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 recommended for application .

- 1.Quick spray Carrousel Pump with spray gun and material lines, Model No. 10-24-14-112-000.Lubricate externals of pumping line, squeezing rollers and pressure plate with silicone oil before starting application and at least once each day,the equipment is used.
- 2.Hopper gun,such as by Quickspray Inc.Model 60AT for use on small or repair areas.

Caution

- 1-Handle with care.
- 2-Avoid inhalation of 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 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.
- 6-Use fresh air masks and explosion proof equipment.

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Application procedures

Always use mechanical mixing equipment when preparing RANA 980 SV.

The rapid shearing action of a mechanical mixer enhances the workability of the material.

1-Stir resin and cure separately .

2-Add cure to resin and mix both components thoroughly.

3-pour the mixed liquid component into a large clean can and add the powder little by little to component .Do not reverse order. Do not vary proportions. Continue power mixing until a smooth , uniform consistency in achieved.

This coat is ready for use after mixing and no induction time is required.

Note: since the pot life is limited and shortened by high temperatures ,do not mix more material than will be used in 1-1.5 hours at 25 °c .

4-Lubricate internals of material line, pumping line and pole gun of carrousel pump by pumping FARCO START 98 starter liquid through spray equipment before starting application of RANA 980 SV.

Pour mixed FARCO START 98 starter liquid into the hopper.

Remove nozzle cap and closed air atomization valve from the spray gun.

Start carrousel pump slowly and circulate the FARCO START 98 Starter liquid for at least 5 minutes through the pump.

5-Empty the hopper completely by pumping the FARCO START 98 starter liquid back into the starter liquid container. Pour one unit of RANA 980 SV into the hopper and adjust speed of the squeezing rollers to approx. 3 r.p.m. by regulating air motor.

A small amount of air must always be bleeding through the spray gun air tip to keep material from backing up in the air tip.

6-Continue pumping until the uniform grey colour of the RANA 980 SV

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appears. Install the nozzle cap. Slowly open the air atomization valve until a correct spray pattern is obtained. The spray pattern is also controlled by adjustment of the air steam plunger.

- 7- Apply the RANA 980 SV by moving the spray gun with rotating passes on the surface until specified thickness is achieved. Keep the spray gun at sufficient distance from the substrate to avoid ,that the mechanical force of the spray disturbs the already applied RANA 980 SV or creates drops and deformation of the applied material.
- 8- Make periodic checks during the application for specified thickness using a wet thickness gauge.
- 9- Check coated areas for defects 0.5 to 2 hours after application, depending on temperatures .Imperfections can be corrected with a short hair roller,which is wetted with RANA THINN 80.
- 10-Check dry thickness of RANA 980 SV using a dry thickness gauge .
- 11- Check for continuity using a holiday detector at 5 KV.
- 12- RANA 980 SV may receive water contact right after application however the wet coating should be protected from washing action which could remove the film while it is still soft .
- 13-Clean all equipment with cleaner immediately after use .

Environmental condition

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

Optimum temperature is between 18°C- 40°C

Surface preparation

The surface must be clean, dry and free of grease, millscale, rust and dirt. Sand blasting to standard of Sa 2.5 – Sa3 , SIS 05 5900 , ISO 8501-1and 75 micron profile.