GP COAT PU 150

ALIPHATIC POLYURETHANE

- **Outstanding weather resistance**

- **Excellent color and gloss retention**

- **Resists soil pickup easily cleanable**

- **Hard tough and abrasion resistant**

Typical Uses

As a finish coat where attractive appearance and a wide range of corrosion resistance is required for chemical plants, Pulp and paper mills, offshore platforms, petroleum refineries, Containers etc.

System using GP coat PU 150

GP coat PU 150 can be applied directly over primers such as GP coat 1618 or as a glossy finish coat over high build epoxies such as GP coat 242 HS and other high build epoxies.

Outstanding Characteristics

GP coat PU 150 an aliphatic Polyurethane coating which has excellent resistance to weathering and chemical industrial and marine environments. GP coat PU 150 forms hard tough flexible and abrasion resistant coating with excellent color and gloss retention.

Application Data Summary

For complete information on procedure equipment and safety precautions see the application instructions in the accompanying sheet.

Like all high performance coating GP coat PU 150 must be applied as recommended to obtain the maximum performance.

Surface preparation

Equipment

Standard industrial spray equipment, either airless or conventional

Physical Data

Finish	-	Glossy
Color	-	See color Chart
Surface	-	Suitable for primer

Concrete and steel

Components	-	2
Curing mechanism	-	Solvent release and

Chemical reaction between components

Solids by wt %	-	68 %
Dry film thickness	-	50 microns (2 mil) Per coat
Number of coats	-	1
Calculated Coverage	-	11. 76 m2 |ltr at 50 microns
		(2mils) allow for application
		Losses, surface irregularities etc
Application	-	Airless or conventional spray

Drying time

Dry to touch	-	1 hrs at 21c
Dry to through	-	8 hrs at 21c

Note: Pot life drying times and curing time dependent on temperature

Mixing ratio	-	5 parts Resin to (by volume) 1 part cure

Temperature Resistance

Continuous	-	93 c dries
Intermittent	-	121c dry
Thinner	-	GP coat 125
Cleaner	-	GP solv 117
Flash points (closed cup)	-	
Resin	-	30c
Cure	-	30c
GP solv 125	-	27c
GP solv 117	-	30c

PACKING

Resin	-	12.5ltr
Cure	-	2.5 ltr

APPLICATION INSTRUCTION

Surface preparation

STEEL

 Prepare surface in accordance with application instruction for the specific primer being used. Be sure primer is cleaned and dry when GP coat PU 150 is applied

Application Equipment

The following equipment is listed as a guide and suitable equipment from other manufactures may be used. Adjustments of pressures and of tip sizes may be needed to obtain the proper spray characteristics.

AIRLESS SPRAY

 Standard airless spray equipment such as Graco with 0. 38 TO 0.43 MM   (0. 015 TO 0.021) ORIFICE|TIP.

CONVENTIONAL SPRAY

Industrial equipment such as bevilbiss MBC or JGA gun with 78 or 765 air cap and E fluid tip.

MIXER

Use power mixer. Mixer must be powered by an air motor or an explosion proof electric motor.

Environmental Conditions

(During application)

Air temperature 5 to 50c. Surface temperature 50 to 60. The surface temperature must be at least 3c above the dew points at all times to prevent moisture condensation.

Application procedure

GP coat PU 150 is packed in the proper mixing Proportions of resin base and curing solution which must de mixed together before use.

Resin in 20 ltr can

Cure   in 5 ltr can

Flush equipment with G P solv 117 cleaner before use.

Stir both resin base and curing solution to an even consistency with a power mixer

Add curing solution to resin and continue string for 5 minutes.

NOTE. Do not mix material than will be used with

20 hrs at 21c. Pot life shortened by higher temperature.

For conventional spray. Thin only as needed for workability with not more than 10 vol % GP solv 125.Thinning is normally not needed or airless spray.

Apply a wet in even parallel passes. Overlap each pass 50 % to avoid bare areas, pinhole or holidays.

Give special attention to concrete welds rough areas edges etc

The application of 102 microns will normally provide 50 microns (92 MILLS) DRY FILM

Check thickness of dry coating with a non destructive dry film thickness gauge. Such as mikrotest or elcometer if less than specified thickness apply additional material as needed

Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair large areas by spray.

In confined areas ventilate with clean air during application and drying until all solvents are removed.

Temperature and humidity of ventilating air must be such that condensation will not from on surface.

Clean all equipment with GP solve 117 immediately after use or at least each working day or shift. When left in spray equipment, GP coat PU 150 will cure and cause clogging.

Drying and curing time (at 50 microns)

To touch   - 1-2 hours at 21 degree.

Dry through   - 8 hours   21 degree.

Curing time is temperature depended. At 21 degree seven days are required for a full cure. For mild atmospheric exposure, coating may be placed in service before it is fully cured.

SAFETY

Since improper use and handing can be hazarding to health and cause fire or explosion. Safety precautions included will application instruction must be observed during al, storage, handling. use and drying periods. To avoid any confusion that may arise through translation in to other language the English version of the product data application instruction will be the governing literature and must be refer in case of deviation with product literature in other language.

Note:-

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