CODE: HR-528

PRODUCT NAME:

Two Component Siloxane Coating

DESCRIPTION:

HR-528 is a two component siloxane coating with properties of both a high performance epoxy and an acrylic-urethane in one coat. It is a multi-purpose coating with high gloss and appearance retention exceeding the best polyurethane with excellent resistance to acid and corrosion.

HR-528 is a high solid coating with good adhesion to self Primer epoxy coating. It can be used in bridges, marine, tanks, pulp and paper, chemical and petrochemical, decks, and etc., as topcoat of self primer epoxy coating.

HR-528 is cured by chemical reaction of two components at 10-50 ºC.

TECHNICAL DATA:

Binder	Modified siloxane resin
Pigment	Chemical and UV resistant pigments
Finish	Gloss
Shade	Ral colors
Specific gravity after mixing	1.35±0.1 Kg/Lit
Volume solid	80 ± 3 %
Flash point	25 ºC
Typical dry film thickness	150-200 Microns
Number of coat	One or Two
Mixing ratio by weight	Base : 100 parts Hardener : 20 parts
Substrate	self primer epoxy, Aluminum, Galvanized
Application method	Conventional or airless spray , brush , roller
Thinner / Cleaner	T-528
Weight of added thinner	5-7 %
Induction Time at <20 c	30 min
Theoretical spreading rate (at 150 microns)	5.3 M^2/Lit
Packing	Base : 20 kg Hardener: 4 kg
Shelf life	12 Months

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Drying Time

Temp	Touch dry	Hard dry	Overcoating Min	Overcoating Max	Full cure
15°C	6 hours	32 hours	28 hours	Not limited	13 days
25°C	4hours	26 hours	22 hours	Not limited	7 days
40°C	2 hours	20 hours	16 hours	Not limited	3 days

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	7 hours	5 hours	3 hours

SURFACE PREPARATION

All Surfaces to be coated should be clean, dry and free from contamination. Prior to Paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

Primed Surfaces

HR-528 should always be applied over a recommended anti-corrosive coating scheme.

The primer surface should be dry and free from all contamination, and HR-528 must be applied within the overcoating intervals specified.

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g.sa2 ½(ISO 8501 -1:1988) or SSPC-SP6, Abrasive, or SSPC-SP11, power tool cleaning) and patch primed prior to the application of HR-528.

Surface preparation shall not take place in the following conditions:

A) At temperature below 5 ºC

B) When the relative humidity greater than 85%

C) When the metal surface temperature is less than 3 ºC above the dew point

D) Outside day light hours on exterior locations

Application Method

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) With Base (Part A) and mix thoroughly with power agitator.

(Stir during application to maintain uniformity of material.)

Application Equipments

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 141 Bar (2000 psi)
Air Spray	Nozzle orifice1.8-2mm Nozzle pressure:2-4 Bar (29-58 psi)
Brush	Typically 70 mic can be achieved.
Roller	Typically 70 mic can be achieved.

Flush Equipment with recommended Cleaner before and after use

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ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 ºC above the dew point.

- Never apply coatings under reverse environmental condition.

- In hot climate, material temperature should be 20 to 25 ºC prior to mixing; otherwise pot life becomes very short.

-For satisfactory cure, air and surface temperature must be above 10 ºC

- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	15 to 35 ºC
Surface temperature	15 to 40 ºC
Material temperature	10 to 30 ºC
Relative humidity	Max 80 %

HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

1-Circulate adequate fresh air continuously during application and drying.

2-Use fresh air masks and explosion proof equipment.

3- Prohibit all flames, sparks, welding and smoking.

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