

Sunmide® WH-900

DESCRIPTION

Sunmide WH-900 is a low viscosity, high molecular weight, special amine adduct which is designed by new technology, dissolved in water. Reactions of Sunmide WH-900 with liquid epoxy resins are quick, have high crosslink actions, and will produce some network structures which can be used for anti corrosive applications. Low crosslink action solid epoxy resin react slowly with Sunmide WH-900, but quickly increase in their molecular weight with reactive process, and can be used for chemical resistant applications. This waterbased hardener has the ability to effectively cure and emulsify many epoxy resins in water. It has better curing properties than other waterbased hardeners at low temperature 10°C, high humidity 85%. Sunmide WH-900 formulations based on liquid epoxy resins are all solvent-free, and have good anti corrosive and adhesive properties which are especially suitable for use in concrete. Sunmide WH- 900 formulations based on solid epoxy resins have good chemical resistance and long pot life properties.

SPECIFICATION

Viscosity (cps / 25°C)	10,000 ~ 20,000
Acid Value	< 10
Amine Value	150 ~ 180
Colour Number (Gardner)	< 10
Solid Contents (%)	60 ± 2
Density (kg/m ³ , 20°)	1.08

AHEW

~ 225

APPLICATION

- Waterbased anti corrosion coatings
- Waterbased repair coatings
- Suitable for reinforcing materials in civil engineering
- Suitable for floor paints in floor system

BASIC FORMULATION FOR WATER BASED COATING & UNDERCOAT

A – COMPONENT

Hardener	Sunmide WH-900	Evonik	20.0
Pigment	Titanium Dioxide R-820	Ishihara	18.0
Filler	P Talc	Takehara	12.0
Filler	Barium Sulphate W-2	Takehara	6.0
Diluent	Water demi	Local	44.0
Defoamer	Nopco 8034-L	Sunnopco	Trace
			100

B – COMPONENT

Epoxy Resin	Epikote #828	Shell	16.9
			116.9

TECHNICAL DATA

Mixing ratio	Component A to B	by weight	100 : 17
		by volume	100 : 20
Density	Component A	g/ml	1.38
	Component B	g/ml	1.17
	Component A + B	g/ml	1.35
Solid content	Component A	%	48.0
	Component B	%	100.0
	Component A + B	%	55.5
Pigment volume concentration		%	28.8
Pot life		Hour	~ 2.0
Theoretical spreading rate		m ² /kg	5.0
(Dry coat at 60µm)		m ² /l	6.7

After mixing Part A and B, this formulation should be ready for brush, roller and spray applications.

PACKING

In 180kgs net per steel drum

SAFETY AND HANDLING PRECAUTIONS

Always ensure that all health and safety procedures are in accordance with local and National Government requirements. Normal handling precautions should be observed, and in the event of contamination the affected parts should be washed with soap and water.

Disclaimer

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