Product data

VERNADUR MASTIC 45880

45880: BASE 45889: CURING AGENT 95880

Description:
VERNADUR MASTIC 45880 is a two-component polyamide adduct cured, high solids, high build epoxy paint. It forms a hard and tough coating, has good wetting properties and low temperature curing.

Recommended use:
As a self-primed, surface tolerant paint system or as an intermediate or finishing coat in heavy duty paint systems where low VOC and high film build are required.
For immersed areas VERNADUR MASTIC 45880 is only recommended for minor repairs.
Can be specified where extended recoating properties for polyurethane topcoats are requested (typically travel coating). May be used directly on cured zinc silicate (GALVOSIL products) or spray metallized surfaces to minimize popping.

Service temperature:
Maximum, dry exposure only: 120°C/248°F.

PHYSICAL CONSTANTS:

Shade nos/Colours:	12170* / Grey. (see REMARKS overleaf)
Finish:	Semi-gloss
Volume solids, %:	80 ± 1
Theoretical spreading rate:	6.4 m^2/l [256.6 sq.ft./US gallon] - 125 micron/5 mils
Flash point:	39 °C [102.2 °F]
Specific gravity:	1.5 kg/litre [12.1 lbs/US gallon]
Dry to touch:	3 hour(s) 20°C/68°F
Fully cured:	14 day(s) 10°C/50°F
VOC content:	216 g/l [1.8 lbs/US gallon]
Shelf life:	3 years for BASE and 3 years (25°C/77°F) for CURING AGENT from time of production.

**Wide range of colours available via VERNA MULTI-TINT system.*

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

APPLICATION DETAILS:

Version, mixed product: Mixing ratio: **45880**
BASE 45889: CURING AGENT 95880

Application method:	3 :1 by volume
Thinner (max.vol.):	Airless spray / Brush
Pot life (Airless spray):	< 5% VERNA'S THINNER 08450, depending on purpose (see REMARKS overleaf) 1 hour 20°C/68°F
Pot life (Brush):	2 hour(s) 20°C/68°F
Nozzle orifice:	0.017 - 0.023 " (According to separate APPLICATION INSTRUCTIONS)
Nozzle pressure:	250 bar [3625 psi]
Cleaning of tools:	VERNA TOOL CLEANER 99610
Indicated film thickness, dry:	125 micron [5 mils] (see REMARKS overleaf)
Indicated film thickness, wet:	150 micron [6 mils] see REMARKS overleaf see REMARKS overleaf
Overcoat interval, min:	
Overcoat interval, max:	

Safety:
Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult VERNA Safety Data Sheets and follow all local or national safety regulations.

Product data

VERNADUR MASTIC 45880

SURFACE PREPARATION:

New steel: Abrasive blasting to minimum Sa 2½ (ISO 8501-1:2007) with a surface profile corresponding to Rugotest No. 3, N9a to N10, preferably BN9a to BN10, Keane-Tator Comparator, 2.0 G/S or ISO Comparator, Medium (G).
Zinc silicate painted or spray-metallized surfaces: Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Zinc salts (white rust) must be removed by high pressure hosing combined with rubbing with a stiff nylon brush if necessary. It is recommended to recoat spray-metallized surfaces as soon as possible to avoid possible contamination.
Concrete: Remove slip agent and other possible contaminants by emulsion washing followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal surface with suitable sealer, as per relevant painting specification.
Repair and maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to minimum St 2 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:1988). Improved surface preparation will improve the performance of the product. As an alternative to dry cleaning, water jetting to sound, well adhering coat and/or to steel. Intact coat must appear with roughened surface after the water jetting. By water jetting to steel, cleanliness shall be: Wa 2 -Wa 2½ (atmospheric exposure) / minimum Wa 2½ (immersion) (ISO 8501-4:2006).
Acceptable flash-rust degree before application: maximum M (atmospheric exposure) / M, preferably L (immersion) (ISO 8501-4:2006).
Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. On pitcorroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting or, alternatively, dry abrasive blasting, high pressure fresh water hosting, drying, and finally dry abrasive blasting again.

APPLICATION CONDITIONS:

Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation.
Use only where application and curing can proceed at temperatures above: - 5°/23°F, preferably above 0°C/32°F. The temperature of paint itself should be 15°C/59°F or above. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT:

None, or as per specification. None, or as per specification.

SUBSEQUENT COAT:

REMARKS:

VOC - EU Directive 2004/42/EC:

Product	As supplied	5 vol. % thinning	Limit phase II, 2010
4588012170	216 g/l	248 g/l	500 g/l

For VOC of other shades, please refer to Safety Data Sheet.

Weathering/service temperatures:

The natural tendency of epoxy coatings to chalk in outdoor exposure and to become more sensitive to mechanical damage and chemical exposure at elevated temperatures is also reflected in this product.

Application(s):

Application onto zinc silicate or spray-metallized surfaces (thinning): It is recommended to apply the paint by using a "mist-coat" procedure provided the paint temperature is approximately above: 20°C/68°F. A thin, undiluted coat is applied (the mist coat) and after a few minutes, a second coat is applied in the full specified film thickness If the paint temperature is below: 20°C/68°F, thinning (max 15%) may be required.

Film thicknesses/thinning:

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and overcoating interval. Normal range dry is: 100-200 micron/4-8 mils. May be specified in lower film thickness for which purpose additional thinning is required, please see separate APPLICATION INSTRUCTIONS. Avoid application of excessive film thicknesses.

Shades:

The product is also available in a Micaceous Iron Oxide (MIO) pigmented shade (Shade no. 12430 – reddish grey). This product is available in several aluminium pigmented shades with different volume solids content

Overcoating:

Before overcoating after exposure in contaminated environment, clean the surface thoroughly with high pressure fresh water hosing and allow drying.
. Overcoating intervals related to later conditions of exposure: If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Product data

VERNADUR MASTIC 45880

A specification supersedes any guideline overcoat intervals indicated in the table.

Environment	Atmospheric, medium					
Surface temperature:	0°C (32°F)		10°C (50°F)		20°C (68°F)	
	Min	Max	Min	Max	Min	Max
VERNADUR	54 h	Ext.	18 h	Ext.	6 h	Ext.
VERNAATEX	54 h	4.5 d	18 h	36 h	6 h	12 h
VERNATHANE	54 h	Ext.	18 h	Ext.	6 h	Ext.
Environment	Immersion					
VERNADUR	4.5 d	90 d	36 h	90 d	12 h	30 d
NR = Not Recommended, Ext. = Extended, m = minute(s), h = hour(s), d = day(s)						