

## SCHEDA TECNICA

**VERMASTIC GF**

**COD. 30410806**

Epoxy-phenolic Solvent Free

Glass flake reinforced

### Description

Two component, solvent free, glass flake reinforced, high built, epoxyphenolic with polycyclic aminic hardener.

### Use and principal characteristic

- Suitable for protective coatings and offshore use.
- Suitable for tanklining, good resistance to various chemicals.
- Excellent abrasion and impact resistance.
- Excellent corrosion resistance.
- Can be applied by heavy duty, single feed, airless spray equipment (70:1) at dry film thickness between 500 and 1000 microns depending on expected performances.
- 750 microns dft is recommended for crude oil and petroleum products tank bottom.
- Full cure after 4 days at 20°C to obtain expected performances.
- Reduced explosion risk and fire hazard.

### Basic data at 20°

#### Colour and gloss

Grey , Gloss

#### Mass density

1,25 kg/dm<sup>3</sup> ±0,02

#### Solids content by volume

99 % ±1

#### Recommended dry film thickness

500 – 1000 microns

#### Coverage theoretical

2 smq/l at 500 microns dft

#### VOC

20 g/kg (Directive 1999/13/EC)

#### Set to touch

4 h at 20°C

#### Ready for handling

10 h at 20°C

#### Overcoating

minimum : 10 h at 20°C  
maximum : 30 days at 20°C

#### Shelf life

24 months stored dry and cool

#### Temperature resistance

90°C immersion, 130°C air

<b>Flash point</b>	Base	134° C
	Hardener	100° C
<b>Application method</b>	Airless, roller or brush for touch ups	
<b>Surface preparation and application condition</b>	All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paints and other contaminants.	
	Dry abrasive blast cleaning to near-white according to (ISO- 8501-1) Sa 2½ or SSPC-SP10 blasting profile (Rz) 50-100	
	Substrate temperature during application and curing should be above 10°C (50°F) and at least 3°C (5°F) above dew point.	
	Good ventilation is requested during application in confined spaces.	
<b>Material preparation</b>	Mixing ratio by weight or volume:	
	base Component A 100 parts	
	hardener Component B 50 parts	
	<i>When mixing, the temperature of the base and hardener should be at least 20°C (68°F); at lower temperature, the viscosity will be too high for spray application. No thinner should be added.</i>	
<b>Introduction time</b>	none	
<b>Pot life</b>	1 hour at 20°C (68°F).	
<b>Environmental Conditions</b>	Surface temperature	+10°C ÷ +50°C
	Air temperature	+10°C ÷ +40°C
	Relative humidity	0 - 80%
	Surface temperature below 10°C is not suitable for good curing and could also cause adhesion loss in case of overcoating.	
<b>Airless spray</b>	Thinner	No thinner should be added
	Nozzle orifice	0,53 mm ( 0,021 inch)
	Nozzle pressure	15 MPa ( ca 150 atm; 2000 p.s.i. )
	Pump ratio	In-line heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature. Length of hoses should be as short as possible
<b>Brush/Roller</b>	For stripe coating or spot repair only, no thinner should be added.	
<b>Cleaning solvent</b>	Thinner n.99100151 ( flash point 6°C) All application equipment must be cleaned immediately after use Paint inside the sparaying equipments must be removed before the pot life has been expired.	
<b>Additional data</b>		
<b>Pot life at application</b>		

viscosity	Mixed product		Pot life			
	10°C (50°F)		2 h			
	20°C (68°F)		1 h			
	30°C (86°F)		30 minutes			

  

Overcoating with	Interval	10°C(50°F)	20°C(68°F)	20°C(68°F)	40°C(104°F)
		30410806	Minimum	20 h	10 h
30410806	Maximum	2 months	1 months	15 days	10 days

*Note: surface must be dry and free from any contamination*

**Measuring wet film thickness** A difference is often obtained between the measured apparent WFT and the real applied WFT, this is due to the thixotropy and the surface tension of the paint, which retards the release of air trapped in the paint for some time. Recommendation is to apply a WFT equal to the specified DFT plus 50µm

**Measuring dry film thickness** When film is still soft, the DFT should be measured using a calibration foil of known thickness placed between the coating and the measuring device.

**Curing time for DFT up to 300 µm (12 mils)**

Surface temperature	Set to touch	Ready for handling	Full cure
10°C (50°F)	8 h	24 h	10 days
20°C (68°F)	4 h	10 h	5 days
30°C (86°F)	3 h	6 h	4 days
40°C (104°F)	30 minutes	3 h	3 days

*Curing time has been measured at humidity below 60%*  
*Set to touch: when a light pressure of the finger does not leave any mark on the surface.*  
*Ready for handling: when the coating can tolerate normal handling without any permanent damage. Minimum overcoating: shortest time when the next coat can be applied.*  
*Maximun overcoating: longest time when the next coat can be applied.*

**Heath Resistance** Dry continuous 90°C  
 Dry non continuous 130°C max 1h peak temp.  
*\* The temperature listed relate to retention of protective properties.*  
*Aesthetic properties could change at these temperatures and when exposed to sun light and weathering.*

**Packings**

Vermastic Avio GF	30410806	kg 25,0 - 5
Hardener	30120191	kg 12,5 - 2,5
Cleaning thinner	99100151	lt 5

**Caution:**

1. A fresh air mask should be used during spraying. Ventilation should be provided in confined spaces to maintain good visibility. Keep container closed. Use adequate ventilation. Avoid prolonged and repeated contact with skin and smoking
- 2 Do not empty into drains. Take precautionary measures against static discharges: for specific information on hazardous ingredients, required ventilation, possible consequences of contact, exposure and safety measures see Safety Data Sheet. This product is intended for use only by professional applicators in industrial situations.

All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards, regulations and legislation. Proper ventilation must be provided during application and afterwards during drying ( refer to product data sheets for typical drying times) to keep solvent concentrations within safe limits and prevent fires and explosions. Forced extraction will be required in confined spaces. Ventilation and/or respiratory personal protective equipment (airfed hoods or appropriate cartridge masks) must be provided during application and drying. Take precautions to avoid skin and eye contact (overalls, gloves, goggles, masks, barrier cream, etc). Before use, follow the advice given on the Material Safety Data Sheets. In the event that welding or flame cutting is

*performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation. The detailed safety measures are dependent on application methods and the work environment*