IL FIORE DELLA PITTURA vernital

# SCHEDA TECNICA

| VEREPOFEN FINISH | SERIE 35640000 |
|---|---|
| | o Solvent Free |

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| **Description** | Two component solvent free amine cured phenolic epoxy coating. |
| **Use and principal characteristic** | • one or two coat coating system and very suitable reinforced system<br>• excellent resistance to crude oil up to 70°C and suitable for storage of unleaded gasoline<br>• good resistance to hot water<br>• good chemical resistance against a wide range of chemicals and solvents<br>• can be applied by heavy duty single feed airless spry<br>• non-inflammable; eliminates explosion risk and fire hazard<br>• good application properties, resulting in a smooth surface |
| **Resistance to** | |
| **Flexibility** | Good |
| **Abrasion resistance** | Very good |
| **Basic data at 20°** | |
| **Colour and gloss** | green and cream - gloss 1,35 kg/l (mixed product) |
| **Mass density** | 1,430 g/cm3 (mixed product) |
| **Solids content by volume** | 100% |
| **VOC** | 26 g/lt |
| **Recommended dry film thickness** | 300 – 600 mm depending on system |
| **Number of coats** | 1-2 |
| **Coverage theoretical** | 2.5 m2/kg at 300 mm. The practical coverage will be less, depending on application technique, job conditions and type of surface to be coated |
| **Application methods** | airless; brush or roller for strip coat |
| **Set - to - touch** | 6 hours |
| **Read for handling** | 16 hours at 20°C; 10 hour at 30°C |
| **Read for overcoating** | min. 24 hours at 20°C; 16 hour at 30°C<br>max. 2 months at 20°C; 1 month at 30°C |
| **Full cured** | 5 days with good ventilation |

**Note**

Drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions: Times are proportionally shorter at higher temperature and longer at lower temperatures

**Shelf life**

Base: al least 24 months when stored cool and dry
Hardener: al least 24 months when stored cool and dry

**Mixing ratio (by volume)**

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|---|---|---|
| Resin | 35640000 | 100 part |
| Cure | 35120189 | 20 part |

**Flash point (DIN 53213)**

Resin and, Cure non-inflammable

**Surface preparation and application condition**

All surfaces to be coated must be clean, dry and free of rust, oils, dust, dirt, old paint, and other contaminants.
Dry abrasive blast cleaning to near-white in accordance with SSPC-SP 10 to a degree of cleanliness in accordance with NACE 2 or ISO Sa 2 ½ to obtain blasting profile (Rz) 50 - 100 mm.
Prime surfaces immediately after blast cleaning, and dust or sand removal by means of vacuum cleaning.
Steel with suitable primer (Vernital Verepofen AS Primer) which must be dry, clean and free from any contamination.

**Material preparation**

Product is supplied in pre measured standard pails so that the right ratio is reached by mixing one pail of base product with one pail of hardener. If smaller quantities are required, the ratio by volume is:

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| Base product | 100 p. |
| Cure | 20 p. |

Stir each of the components prior to mixing to an even consistency with a power mixer. Add cure to resin, and continue stirring for 10 minutes

**Induction time**

None

**Pot life at 20°**

After mixture, product must be used within 1 hours or 30 minutes at 30°C. Afterwards it becomes thick and cannot be used any more hours and less at higher temperatures. Pot-life ends when coating loses body and begins to sag.

**Environment condition**

During application and drying:
Air temperature: 5 to 50°C
Surface temperature: 5 to 50°C
To prevent moisture condensation during application, surface temperature must be at least 3°C above dew point.

**Airless spray**

Compression ratio • heavy duty single feed airless spray equipment with a minimum of 60:1 pump ratio and suitable high pressure hoses

**Air spray**

Compression ratio • heavy duty single feed airless spray equipment with a minimum of 60:1 pump ratio and suitable high pressure hoses
• in-line heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature

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| Recommended thinner | no thinner to be added |
| Nozzle orifice | approx.0,53 mm (0,021 inch) or larger |
| Nozzle pressure | 28 – 22 MPa (approx. 280-220 at.-4000 - 3000 p.s.i.) |

**Brush/Roller**

Use clean, short bristled brush or medium nap roller. For strip coating and spot repair only

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|---|---|
| Recommended thinner | no thinner to be added |

**Cleaning Solvent**

cod. 25100200 (flash point 28°C)

All application equipment must be cleaned immediately after use, and the paint inside the spraying equipment must be removed before the pot life time has been expired

**Additional Data**

**Spreading rate**

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| Theoretical spreading rate | gr/m2 | 400 | 800 |
| | m2/kg | 2,5 | 1,25 |
| Dft in µm | | 300 | 600 |

**Measuring wet film thickness**

•a deviation 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 by which the release of air in the paint film takes some time. Recommendation is to apply a wft which is equal to the specified dft plus 60 µm.

**SAFETY PRECAUTIONS**

1. No solvent present; however, spray mist is not harmless, 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, require ventilation, possible consequences of contact, exposure and safety measures see Safety Data Sheet.