TECHNICAL DATASHEET

Vitalit® 2008

Vitalit® 2008 is a combined cationic coating compound based on epoxy resin, featuring low flow characteristics and therefore enabling a perfect flange. The product can be cured thermally and when exposed to UV-light providing a dry surface immediately. Complete stability sets in after the coating has cooled off. To obtain full cure of layers or shaded areas additional thermal curing is required. Vitalit® 2008 is a flexible, autoclavable coating compound, featuring an excellent chemical resistance. Shelf life of this product is 6 months provided it is stored in unopened containers (5°C no radiation).

**Shelf life:**
in closed original packing unit at 5°C without UV-irradiation  -- 6 months --

**Technical Data**

- **Color**: transparent
- **Resin**: epoxy

**UNCURED PROPERTIES**

- **Viscosity** (Brookfield LVT/25°C) [mPa·s]  
  - PE-Norm P001: 200 to 300
  - PE-Norm P050: > 100
- **Flash point** [°C]  
  - PE-Norm P003: approx. 1.12
- **Density** [g/cm³]  
  - PE-Norm P018: 1.4904
- **Refractive Index** [nD20]

**Curing**

- **UV(UV-A 60mW/cm² Thickn.st. 0,5mm): [sec.]**  
  - PE-Norm P002: 60
- **Thermical Curing 105°C : [Min]**  
  - PE-Norm P035: 30
  - PE-Norm P032: 24
  - PE-Norm P033: 1

**CURED PROPERTIES**

- **Temperature Resistance** [°C]  
  - PE-Norm P030: -40 to 180
  - PE-Norm P052: 40 to 50
- **Hardness** [Shore D]  
  - PE-Norm P031: 1.5
  - PE-Norm P053: < 0.5
- **Shrinkage** [Vol-%]  
  - PE-Norm P009: 44 to 47
- **Water Absorption** [mass-%]  
  - PE-Norm P054: 3.4
  - PE-Norm P055: 16.7
- **Tg** [°C] (DSC)
- **Dielectric Constant** [10kHz]
- **Dielectric Strength** [kV/mm]

Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the intended user and describes characteristics, with no declaration of commitment. We recommend trials in order to confirm that our products satisfy the particular application requirements. For an additional technical consultation, please contact our R&D department. In general, for guarantee claims, please refer to our standard terms and conditions.

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UV-epoxy, unfilled, dual-curable:
- storage at max. 5°C
- before using acclimate to room temperature in original packing unit
- applicable with syringe, quench bottle, dispenser, automatic dispenser…
- surfaces to be bonded should be free of dust, oil, fat or any other dirt
- curing wavelength from 315nm to 400nm

Curing time depends on:
- emission spectrum and intensity of emitter but min. 30mW/cm²
- distance from emitter to substrate
- emitter intensity aging
- layer thickness
- material influence like reflection, adsorption, UV permeability …

This product is dual curable, i.e. deep layers thickness or shadow areas can be thermal cured afterwards.

Otherwise the guidelines for application, storage etc. in our general Data Sheet Vitralit® are valid.