

Vitralit® 2009 F is a combined cationic UV- and thermally curable coating compound, based on epoxies. The surface is dry after the UV curing process, stability will be reached, once the coating has cooled down. Deep layers or shadowed areas can be post cured thermally. Vitralit® 2009 F is a flexible coating, can be autoclaved and is highly chemical resistant. When stored properly (+ 5° C/ no UV radiation) in closed original boxes, the product can be stored for 6 months.

The product is set up fluorescent, when using partial dosage, the progression can be recognized very well with blacklight.

**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 | 100 to 200    |
| Flash point [°C]                        | PE-Norm P050 | > 100         |
| Density [g/cm³]                         | PE-Norm P051 | approx. 1.085 |
| Refractive Index [nD20]                 | PE-Norm P018 | 1.491         |

## Curing

|  |              |    |
|--|--------------|----|
| UV(UV-A 60mW/cm² Thickn.st. 0,5mm): [sec.] | PE-Norm P002 | 60 |
| Thermal Curing 105°C :[Min]                | PE-Norm P035 | 30 |
| Full Strength [hours]                      | PE-Norm P032 | 24 |
| Depth of Cure [mm]                         | PE-Norm P033 | 1  |

## CURED PROPERTIES

|                             |              |            |
|-----------------------------|--------------|------------|
| Temperature Resistance [°C] | PE-Norm P030 | -40 to 180 |
| Hardness Shore D            | PE-Norm P052 | 40 to 50   |
| Shrinkage [Vol-%]           | PE-Norm P031 | 1.5        |
| Water Absorption [Gew-%]    | PE-Norm P053 | < 0,5      |
| TG DSC [°C]                 | PE-Norm P009 | 44 to 47   |
| Dielectric Constant [10kHz] | PE-Norm P054 | 3.4        |
| Dielectric Strength [kV/mm] | PE-Norm P055 | 16.7       |

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 RD department. In general, for guarantee claims, please refer to our standard terms and conditions.

Adhesives  
and more...

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 wave- length from 315nm to 400nm

Curing time depends on:

- emission spectrum and intensity of emitter but min. 30mW/cm<sup>2</sup>
- 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.

Adhesives  
and more...