

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 P003	approx. 1.085
Refractive Index [nD20]	PE-Norm P018	1.491

Curing

UV(UV-A 60mW/cm² Thic kn.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 [mass-%]	PE-Norm P053	< 0.5
Tg [°C] (DSC)	PE-Norm P009	44 to 47
CTE [ppm/K]	PE-Norm P017	85
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 tended 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...**

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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 wave- length 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.