

Vitralit® Mask

Temporary Maskants for Metal Surfaces

System Properties

- Easy to apply
- Fast curing
- Easy to remove

Advantages

- For automated processes
- Resistant to standard procedures
- Solvent free
- No residues left
- Protects complex geometries
- Exact borderlines

Innovative Light Curing Maskants for Metal Surface Treatment

Innovative Adhesive Technology

Vitralit® Mask products are designed to protect surfaces during manufacturing of orthopedic implants, surgical instruments and other medical devices.

Furthermore Vitralit® Mask products perfectly protect turbine and hot engine parts during manufacturing and maintenance.

They also can be used as maskants on all kind of metal surfaces in the general industry during mechanical or chemical treatment processes.

Total Systems Approach

The Höhle Group offers complete systems technologies:

- Panacol High-Tech Adhesives and professional Dispensing Systems
- Perfectly aligned UV and UV-LED Curing Equipment from technology leader Höhle with a broad spectrum of wavelengths enable optimal quality of curing in seconds.

Höhle system solutions provide excellent technical competence and process reliability.

Vitralit® Mask	20101	20102	20104
Viscosity (nom) mPas	20.000 thix	10.000 thix	15.000 thix
Curing	30 s *	30 s *	30 s *
Color	Clear	Red	Clear
Shore hardness	90 D	50 D	75 A
Characteristics	Hard, dual cure, high adhesion	Flexible, high adhesion	Flexible, tough, low adhesion
Typical Applications	Acid bath, mechanical treatment	Grit blasting, plating	Mild to moderate blasting, peeling, painting
Removal method	Thermal > 600 °C	Peel, 70 °C Hot water	Peel RT

Vitralit® Mask	20106	20107	20108
Viscosity (nom) mPas	< 80	13.000 thix	9.000 thix
Curing	30 s *	30 s *	30 s *
Color	Clear	Green	Clear
Shore Hardness	90 D	80 A	80 D
Characteristics	Hard, dual cure	Flexible, tough, high adhesion	Hard, high adhesion, dual cure
Typical Applications	Laser drilling	Moderate to hard blasting, polishing	Plasma, acid bath, mechanical treatment
Removal Method	Thermal > 600 °C	Peel, 50 °C Warm water	Thermal > 600 °C

* 100 mW/cm² – Höhle UVACube, Fe-bulb, measured with Höhle UV-Meter / UVA-Flood sensor

Typical Applications

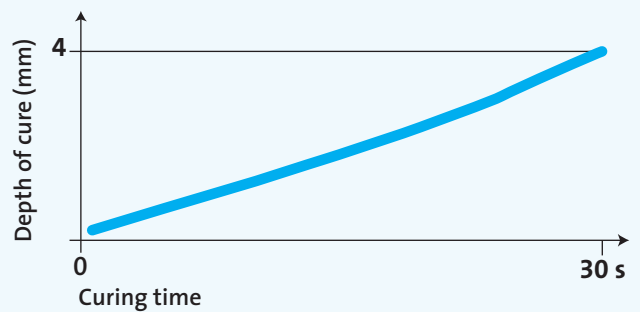
- Media blasting: high velocity impact of organic media, aluminum-oxide, cut wire, glass beads or steel shots
- Acid stripping, plating, anodizing, prolonged immersions in heated solutions of acids, degreasers, chemical stripping agents or plating bathes
- Rigorous processes for turbine and hot engine assemblies
- Orthopedic implant manufacturing: hip joints, knees, bone plates, and spinal implants to protect designated areas
- Plasma spray processes
- Galvanic processes
- Protection of foreign damage, transportation and handling
- General mechanical treatments of metallic surfaces



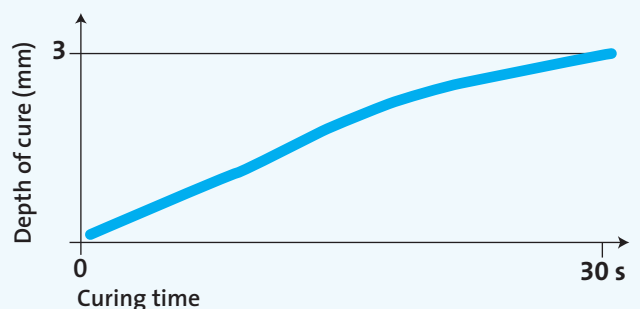
Vitralit® Mask Products: Benefits

- Easy to use, single application by syringe, brush, dip or spray
- Consistent protection from high impact particulate, hot acid, alkali solutions, plating and paint
- Removal of most masks is accomplished by a simple peel or hot water dip and peel. Hot water helps to flexibilise masks for an easy peel
- Clean burn off by incineration > 600 °C
- Solvent free, single coat application
- Conforms precisely to component geometry
- No surface residual after removal
- Cures in seconds for continuous inline processing
- Easy application and removal after processing
- Consistent performance for improved quality
- Significant time and cost savings

Vitralit® Mask 20101 for turbine blades
UVACUBE 2000 Fe bulb 100 mW/cm²



Vitralit® Mask 20107 green for orthopedic implants
UVACUBE 2000 Fe bulb 100 mW/cm²



Perfect Curing of Panacol Vitralit® Mask-Products with UV Equipment from Dr. Hönle AG

Dr. Hönle AG is one of the world's leading suppliers of industrial UV technology. Innovative Hönle UV-systems have been applied - equipped with gas-discharge lamps and also with LEDs - in various manufacturing processes where they achieve excellent results worldwide particularly in adhesive applications.

Hönle and Panacol, both members of the Hönle Group, attach great importance to joint research and development. They have combined their knowledge and extensive experience in chemistry and UV technology, which has led to comprehensive high-tech solutions for applications in the manufacturing industry.

Hönle UV Technology for applications of Vitralit® Mask Products

The range of Vitralit®Mask products from Panacol is perfect for applications on metal surfaces. The matching UV equipment to cure these high-tech materials are the UVACUBE 2000 and the UVAPRINT HPV from Hönle:

UVACUBE 2000

The UVACUBE 2000 is an UV curing chamber for laboratory use and manual production. By combining different UV units like direct irradiation or ACM mirror for temperature



UVACUBE 2000

reduction, and lamps, UVACUBE 2000 can be used for a large variety of applications and offers individual process solutions.

Power and timer preset offer high process reliability.

In addition, UVACUBE 2000 meets the highest demands in operational safety and ease of handling.

Generous capacity

The UVACUBE 2000 has a useful working capacity of around 450 x 400 x 300 mm (HxWxD) permitting a wide range of objects to be accommodated. Optimised lamp reflectors and interior provide uniform irradiation (approx. +/- 10 % on bottom of chamber).

Exact and repeatable results

The standard supply of the timer controlled shutter is for exposure periods from 1 second to 9 minutes 59 seconds.

Optionally this timing range can be set from 1 minute to 9 hours 59 minutes. An acoustic device signals the end of irradiation.

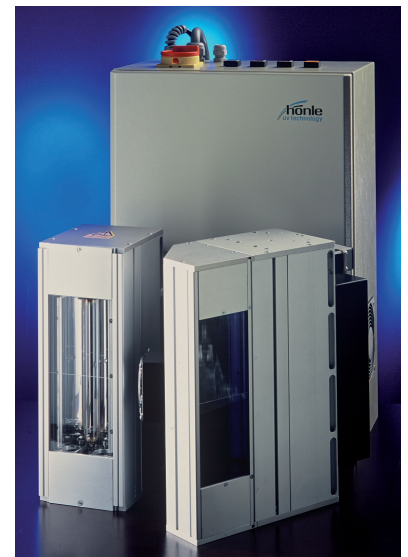
If required, UVACUBE 2000 can be supplied with an UV meter. Its UV sensor can be located anywhere in the curing chamber to provide exact measuring results.

UVAPRINT HPV

A compact high-intensity UV curing unit with CAD-designed reflector geometry guaranteeing optimum UV yield.

Spectra and arc lengths are easily adapted for different applications by just changing the lamp.

UVAPRINT HPV is used for curing UV reactive adhesives, compounds, plastics, inks and lacquers.



UVAPRINT HPV

hönle group			Dispensing	Curing	UV-adhesives	Conductive adhesives	Potting		
aladin	eleco-efd	eltosch	grafix	hönle	mitronic	panacol	printconcept	raesch	uv-technik speziallampen



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Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data. © Copyright Panacol-Elisol GmbH. Updated 01/2013.