

# LIGHT LOCK N°1

## THE FIRST ODOURLESS LIGHT CURING CYANOACRYLATE

AFINITICA® LIGHT LOCK N°1 is a unique product in the market. The proprietary formulation exploits a novel photoinitiator system that is highly sensitive to visible and UV light. Light lock n°1 additionally functions as an odourless instant adhesive offering high bonding strength on a plethora of substrates.

### FEATURES



HIGH  
PHOTOSENSITIVITY



ADHESION AND  
COATING



DUAL CURE  
SYSTEM



NON-IRRITANT

- Dual cure system: instant and photocure
- High photosensitivity to visible and UV light
- Room temperature storage stability
- Dry to touch, tack free surface cure
- Cure-on-demand of excess material exuded from bondlines
- Bonds, fills, reconstructs and coats
- Odourless, non-staining
- Non-lachrymatory, non-irritant, label free
- Available in different viscosities: low (LV), medium (MV) y high (HV)

### TYPICAL APPLICATIONS

- Functional coatings
- Working with transparent substrates
- Bonding of medical devices
- Jewellery design
- Large area tack free odourless coatings



(\*) Except polyolefins

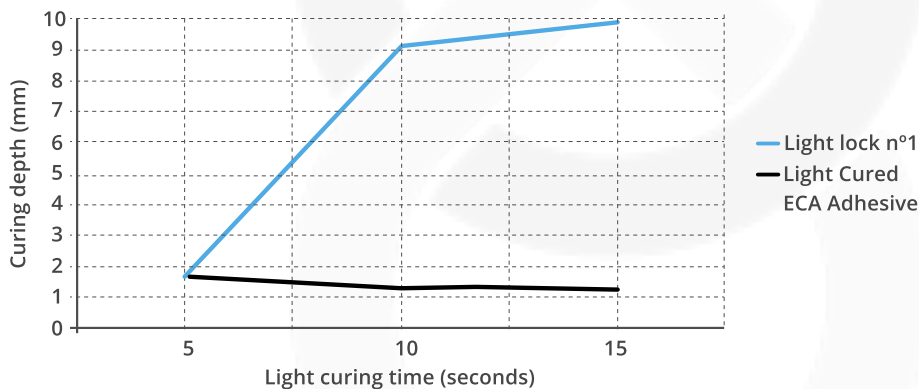
# TECHNICAL DATA

BASE	Methoxyethyl Cyanoacrylate
VISCOSITY	LV (10-30 cP), MV (180-220 cP), HV (600-1200 cP)
COLOUR	Transparent
OPERATING THERMAL RANGE	-40 °C up to +80 °C
GAP FILLING CAPACITY	centimeters
OPEN TIME	Up to 30 minutes without light exposure

SUBSTRATE	FIXTURE TIME (seconds)		SHEAR STRENGTH (24 h, kg/cm <sup>2</sup> )	
	Cured without UV	Cured with UV	Cured without UV	Cured with UV
ABS	LV: 15-30 MV: 15-30	LV: <10 MV: <10	LV: 120-130* MV: 120-130*	LV: 80-90* MV: 70-80*
Acrylic	LV: 30-45 MV: 90-105	LV: <10 MV: <10	LV: 60-70* MV: 90-100*	LV: 60-70* MV: 80-90*
Polycarbonate	LV: 15-30 MV: 40-55	LV: <10 MV: <10	LV: 110-120* MV: 90-100*	LV: 60-70* MV: 60-70*
PVC	LV: 150-180 MV: 120-150	LV: <10 MV: <10	LV: 60-70* MV: 120-130*	LV: 30-70 MV: 30-40



## CURING DEPTH WITH LIGHT



## AVAILABLE FORMATS

5 g	20 g	50 g	500 g	20 kg
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(\*) Substrate failure