



light lock

n°1

**LIGHT CURING
TECHNOLOGY**



JUNE 2017

**NOT ONLY
AN INSTANT
ADHESIVE.**

**BONDS,
REPAIRS
and SEALS**
on command at the
SPEED of LIGHT

WORLD FIRST

The first commercial light curing cyanoacrylate adhesive based on a patented non-blooming, non-lachrymatory, odourless monomer technology.

The proprietary formulation exploits a novel photoinitiating system that is sensitive to both visible and UV light.

light lock n°1 additionally functions as an odourless instant adhesive offering high bond strength on a plethora of substrates.



**THE BEST COMBINATION OF A SUPERGLUE AND
A LIGHT CURING INSTANT ADHESIVE
FINALLY UNITED.**

Dual cure initiation mechanism guarantees the maximum degree of cure in the minimum time in any situation including shadow cure, surface cure, deep cure, sealing and cure of excess adhesive fillets.

light lock n°1



Health and Safety

- ODOURLESS
- NON IRRITANT
- ZERO BLOOMING
- GAP FILLING
- TACK FREE CURE

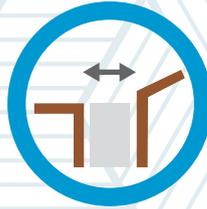
PROPERTIES



Patented



Odourless



Gap filling

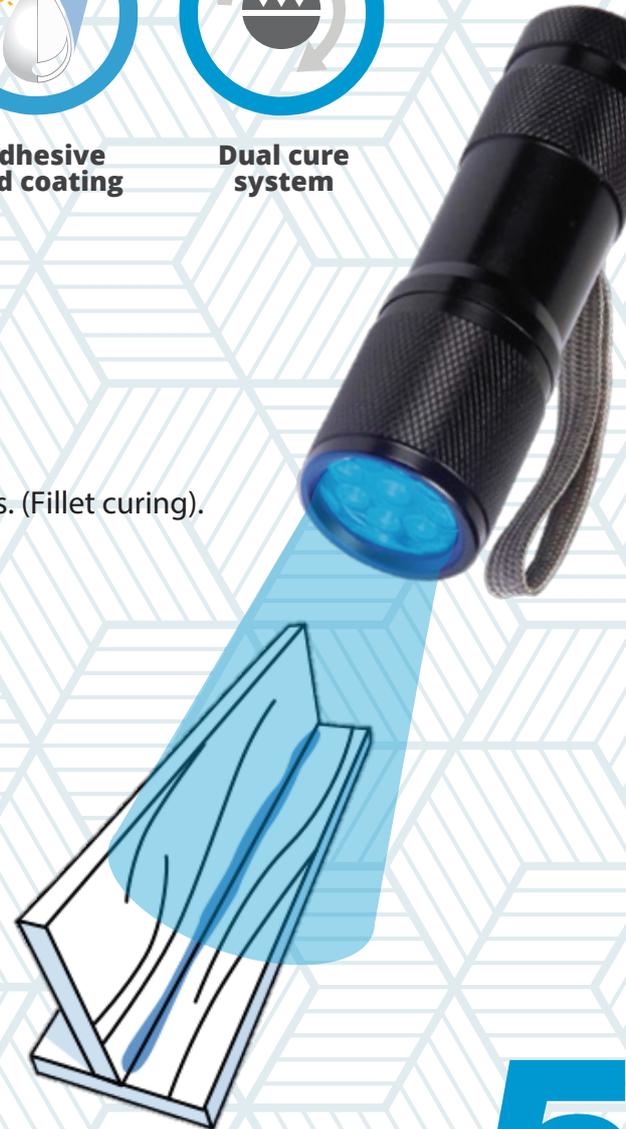


**Adhesive
and coating**



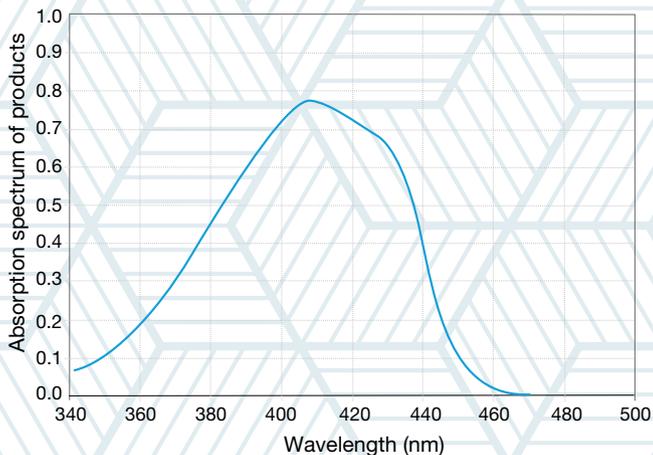
**Dual cure
system**

- Dual cure system: instant and photocure.
- High photosensitivity to visible and UV light.
- Room temperature storage stability, 1 year.
- Dry to touch, tack free surface cure.
- Cure-on-demand of excess material exuded from bondlines. (Fillet curing).
- Bonds and fills gaps.
- Can be used as a coating.
- Odourless, no blooming.
- Non irritant, label free.
- Available in different viscosities: low (LV), medium (MV) and high (HV).

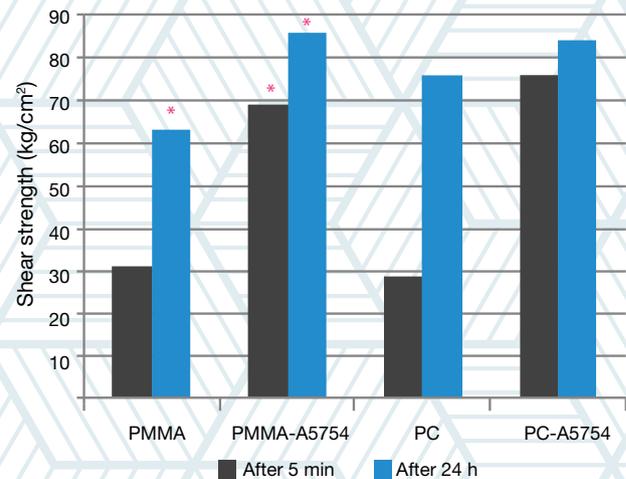


	Light lock n°1 LV	Light lock n°1 MV
BASE	Methoxyethyl Cyanoacrylate	Methoxyethyl Cyanoacrylate
VISCOSITY	Low 10-30 cP	Medium 180-220 cP
COLOUR	Cures transparent	Cures transparent
FIXTURE TIME PHOTOCURE	< 5 seconds	< 5 seconds
FIXTURE TIME WITHOUT LIGHT	15 seconds	15 seconds
SHEAR STRENGTH (24 h, moisture cure without light)	ABS: 120-130 kg/cm ² (SF) Polycarbonate: 110-120 kg/cm ² (SF)	ABS: 120-130 kg/cm ² (SF) Polycarbonate: 90-100 kg/cm ² (SF)
SHEAR STRENGTH (24 h, light curing)	ABS: 80-90 kg/cm ² (SF) Polycarbonate: 60-70 kg/cm ² (SF)	ABS: 70-80 kg/cm ² (SF) Polycarbonate: 60-70 kg/cm ² (SF)
OPERATING THERMAL RANGE	-20 °C up to +80 °C	-20 °C up to +80 °C
AVAILABLE FORMATS	5 g, 20 g, 500 g	5 g, 20 g, 500 g
ACCESSORIES	Active Spray, Plastic Primer, torch, precision dispensing tips	Active Spray, Plastic Primer, torch, precision dispensing tips

ABSORPTION SPECTRUM OF PRODUCTS



SHEAR STRENGTH AFTER 5 SECONDS LIGHT CURING



PMMA = POLYMETHYL METHACRYLATE
 PC = POLYCARBONATE
 A5754 = ALUMINIUM
 * SUBSTRATE FAILURE

	LIGHT CURING ACRYLATE PRODUCTS	LIGHT CURING ECA PRODUCTS	LIGHT CURING MECA PRODUCTS
CURING SPEED WITH / WITHOUT LIGHT	✗ / + (NO SHADOW CURE)	+ / +	+ / +
STRENGTH	▲	+	+
SUBSTRATES	▲ (NON OPAQUE)	+	+
FLEXIBILITY	▲	✗	▲
GAP FILLING / CURING DEPTH	▲ (LAYER BY LAYER)	▲ (<2MM)	+ (CENTIMETERS)
RESIDUAL TACK	▲ (YES)	+ (NO)	+ (NO)
COLOUR	▲ (YELLOWISH)	▲ (GREENISH)	▲ (TRANSPARENT /GREENISH)
ODOUR	✗ (STRONG)	✗ (STRONG)	+ (LOW)
BLOOMING	+ (ZERO)	+ (ZERO)	+ (ZERO)
GHD LABELLING	✗ (IRRITANT)	✗ (IRRITANT)	+ (LABEL FREE)
STABILITY	+ (1 YEAR RT)	▲ (6 MONTHS COLD)	+ (1 YEAR RT)

+ GOOD

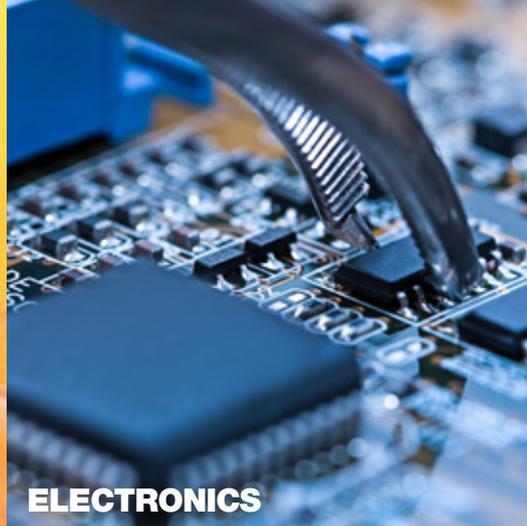
▲ NOT SO GOOD

✗ BAD

ECA= ETHYL CYANOACRYLATE
MECA= METHOXYETHYL CYANOACRYLATE



MEDICAL DEVICES



ELECTRONICS



SOUND SYSTEMS



JEWELRY



AUTOMOTIVE



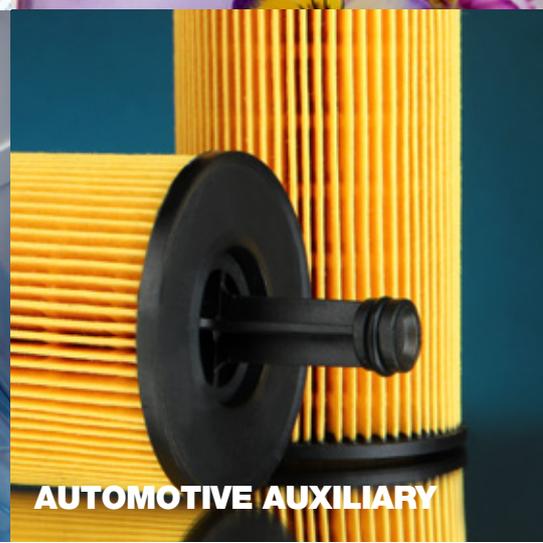
COSMETICS



LOGO PLACEMENT



APPLIANCES



AUTOMOTIVE AUXILIARY





*The
Light lock
company limited*