



LOXEAL®

ENGINEERING ADHESIVES

PUT IT ON & GO TO SLEEP



INDUSTRIAL GRADE UV CURING ADHESIVE

LOXEAL 30-35

Technical Data



Overview:

Loxeal® UV 30-35 is a Fast Curing, High Strength Ultra Violet curing adhesive.

Adhesive curing in seconds by exposure to ultraviolet light. Recommended for bonding of glass to glass or glass to metal parts. Designed for a long lifetime in wet environments; it provides a balanced forces transduction. Ideal for bonding bathroom scales, door hinges for showers, aluminium and metal profiles on glass, traffic signs devices.

Physical Properties

Composition: Acrylic Urethane Resins
 Colour: Clear
 Viscosity (+25°C – mPas): 5,000 – 8,000 (Gel)
 Specific Weight (g/ml): 1.1
 Curing time UV (365nm): 5 to 10 seconds
 Gap size to fill: 0.03mm / 1.5mm
 Flash Point: > +100°C
 Shelf Life: 12 months at 25°C in original unopened packaging

Curing Properties

To obtain the best features, clean and dry parts to bond. The polymerization depends on the UV lamp radiation, on the distance from the lamp, on the thickness of the adhesive applied, on the light permeability of the pieces to bond and on geometry of the joint. We recommend to use UV lights able to produce UV waves between 365 nm and 420 nm at 100mW/cm². We recommend to cool the area irradiated with UV lamp while using thermoplastic materials.

Properties Of Cured Adhesive (Typical)

Tensile strength (ASTM D2095-69): 8– 12 N/mm²
 Tensile strength (ASTMD2095-69) after 2 weeks @ +70°C and 90% R.H.: 6 - 10 N/mm²
 Tensile at break (DIN 53504): 10 – 20 N/mm²
 Hardness (Shore D): 40 – 50
 Elongation at break (DIN 53504): 150 – 200%
 Temperature range: -55°C/+120°C
 Refractive index: 1.471
 Light transmittance : > 98%
 Water Absorption rate (ISO 62) : < 1,5 % (2h boiling water)

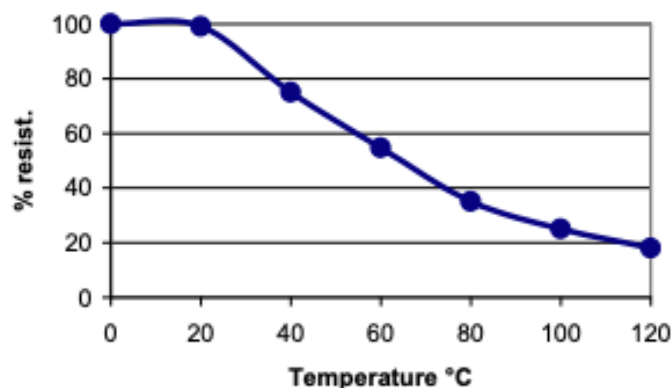
Storage:

We recommend to store this product in a cool and dry place at temperature not exceeding +5°C to +25°C.

To avoid contaminations, do not refill containers with used products. For more information on applications, storage and handling, contact Loxeal Technical Service.

Environment Resistance

The graph below shows the mechanical strength vs. temperature
 Specimen: Steel to Glass



Chemical Resistance

Aged under conditions shown below after 24 hours from polymerisation at indicated temperature.

Substance	°C	Resistance After 100 H	Resistance After 500 H	Resistance After 1,000 H
Alcohol	25	Excellent	Excellent	Excellent
Gasoline	25	Excellent	Excellent	Good
R.H 90%	40	Excellent	Excellent	Good
Refrigerant gases	25	Excellent	Excellent	Excellent

Safety and Handling:

Consult the Safety Data Sheet before use

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Note:

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