

## TECHNICAL DATA SHEET

### Altraset<sup>®</sup> 5400

UV Light Curing Adhesive

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(An ISO 9001 Certified Company)  
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### Product Description

Altraset<sup>®</sup> 5400 is a fast cure, medium viscosity, thixotropic UV or Visible light cure adhesive which bonds glass to glass and glass to metal components. The product's ability to cure in seconds enables faster processing, greater output and lower assembly cost. The product is normally used in a temperature range of – 40°C to 120 °C, depending on the application.

### Applications:

- ❖ Used in electronics, electrical engineering, microelectronics, medical technology, optics, precision engineering, furniture and glass industries for bonding, coating, fixing and sealing.

### Properties

Technology	:	Acrylic
Chemical Type	:	Urethane Methacrylate
Component	:	One part
Appearance	:	Viscous liquid
Colour	:	Clear
Specific Gravity, ASTM D1875	:	1.03
Viscosity @ 25 ±2°C, Brookfield, Spindle #6 Speed 100 r.p.m. ASTM D1084	:	7400±50 cP
Refractive Index, ASTM 542	:	1.49
Durometer Hardness, Shore D, ASTM D2240	:	70-75
Elongation, at break, ASTM D638	:	15 %
Water Absorption ( 24 hrs) ASTM D570	:	Nil
Boiled water Absorption (2 hrs)	:	None
Dielectric Strength, ASTM D 149	:	24 KV/mm

### Curing Performance

Altraset<sup>®</sup> 5400 cures when exposed to ultraviolet light range from 320 to 420 nm. If being used to bond parts together, UV light must be able to pass through one of the parts to reach the adhesive.

*source, exposure time, bondline gap, geometry and light transmittance of the substrate through which the light must pass.*

Tack free surface (10 mW/cm<sup>2</sup>): 6-10 sec

Minimum Curing Time 10 mW/cm<sup>2</sup>  
Glass to glass Slide : 5-6 sec

### Directions for Use

1. This product is light sensitive; exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage and handling.
2. For best performance bond surfaces should be clean and free from grease.
3. For dry curing of exposed surfaces, higher intensity UV is required.
4. Plastic grades should be checked for risk of stress cracking when exposed to liquid adhesive.

### Handling

- ❖ Altraset<sup>®</sup> 5400 must be handled in compliance with relevant local regulations.
- ❖ Altraset<sup>®</sup> 5400 can affect certain plastics or coatings. It is recommended to check all surfaces for compatibility before use.

### Storage

- ❖ Store Altraset<sup>®</sup> 5400 in a cool and dry location in unopened containers at room temperature
- ❖ Storage Life: 12 month at room temperature (25 ±2°C) in unopened original container.
- ❖ To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact our technical service Center.

### Note

All statements, technical information and recommendations set forth herein are based on tests which Metlok Private Limited, believes to be reliable. However, Metlok Private Limited does not guarantee their accuracy or completeness. We cannot assume responsibility for the results obtained

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