

Product Description

Bondchem UV6 is an optically clear UV curable doming and potting resin which is produced in a number of different shore hardness to suit a cross section of industrial and electronic applications. The UV6 resin contains a highly active photo-initiator package which ensures efficient free radical initiation with both LED and low energy light sources.

Suited to a wide range of substrates the UV6 incorporates bespoke acrylate technology enabling a unique balance of flexibility, hardness, clarity and environmental resistance.

Formulated without the use of solvents this advanced single component resin system does not contain any isocyanates or mercury which can be commonplace in alternate doming products.

Typical Applications

Bondchem UV6 Dome Coat can be used for a wide variety of applications including but not limited to:

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|---------------------------------|---------------|
| Decals | Potting |
| Plastic or metal Badges | Encapsulating |
| Decoration requiring high gloss | |

Instructions For Use

This adhesive is UV sensitive, any exposure to daylight, UV light and artificial light should be kept to an absolute minimum during storage and handling.

- Clean parts fully and apply adhesive to one of the mating parts.
- Assemble parts, and position ensuring any bubbles are removed prior to cure.
- Apply UV light and allow to cure.
- As the cure rate depends upon lamp intensity, distance from light source, depth of cure needed, bondline gap, and the light transmittance through the substrate itself, it is always advisable to test and assess cure speed prior to production.
- For guidance, if the gel time under UV exposure = **X** always allow a minimum of **X+2X** for a full cure before moving the parts.

Features and Benefits

Faster Production	Faster customer response Reduced order-to-shipment time Greater Productivity
Cure on demand	Instant light cure shuts out airborne contamination Cure occurs when and where you want it
One Part Resin	Consistent viscosity Less chance for air entrapment Reduced purge and resin waste Eliminates the need for meter mix equipment
Small footprint	Free factory space for more production
Less Labour	Reduced costs
No Mercury	Fewer health and safety issues
No Isocyanates	Fewer disposal issues and costs

Properties of Uncured Material

Resin	Urethane Acrylate
Appearance	Clear Liquid
Curing Mechanism	UV LED SG 1.1
Cure Speeds	1-3 Seconds *

Performance of Cured Material

UV6-1	
Viscosity	2000cps
Shore Hardness	40-50
Product feature	Flexible Coating

UV6-2	
Viscosity	12000cps
Shore Hardness	60-65
Product feature	Semi Flex Coating

UV6-3	
Viscosity	500cps
Shore Hardness	80-85
Product feature	Hard Encapsulating/ Coating

UV6-4	
Viscosity	500cps
Shore Hardness	80
Product feature	Anti Graffiti

*Cure speed and depth will vary directly with the intensity and power of the UV light.

Packaging

Bondchem UV6 is available in 10ml, 50ml, 250ml HDPE black bottles. In addition, we can offer bulk material in 25kg HDPE units for automated dispensing lines.

Storage & Shelflife

Bondchem UV6 should be stored unopened in a cool dry location, out of direct sunlight. Stored correctly, this grade can offer a 12 month shelf life from manufacture.

Health and Safety in Use

Bondchem UV6 should not be used without consulting the MSDS, which contains full information regarding the use of this product, including Transport, Disposal, Toxicological, Exposure Controls, Accidental Release and First Aid measures essential to the safe use of this product.