

Product Description

Bondchem UV4 is a single component high viscosity, ultra fast cure UV/Visible light curable structural adhesive. This grade is designed to bond a wide variety of plastics including PVC, PC, ABS and PETG.

Typical Applications

Bondchem UV4 cures in seconds upon exposure to UV/Visible light to form an impact resistant flexible bond. It is used widely on many substrates and applications in both industrial and medical market sectors. Typical applications shown below:

- Bonding disposable medical devices
- Bonding polycarbonate display stands
- Bonding polycarbonate letters in the sign industry
- Bonding glass bevel assemblies

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.

1. Clean parts fully and apply adhesive to one of the mating parts.
2. Assemble parts, and position ensuring any bubbles are removed prior to cure.
3. Apply UV light and allow to cure.
4. 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.
5. 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.

Properties of Uncured Material

Resin	Urethane Acrylate
Appearance	Clear Amber liquid
Viscosity	150,000 cps
Cure System	UV/Visible Light

Performance of Cured Material

Shear Strength 22.2 x 25mm mm Overlap	PC to PC : 6.7 Nmm ²
	PC to ABS : 5.98 Nmm ² Substrate Failure
	PC to PVC : 9.15 Nmm ² Substrate Failure
	PC to PET G : 5.15 Nmm ² Substrate Failure

Packaging

Bondchem UV4 is available in 200g black bottles.

Storage & Shelflife

Bondchem UV4 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 UV4 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.