



# UV188 CONSTRUCT<sup>®</sup>

## High Strength, High Viscosity Bonder

### DESCRIPTION

Construct<sup>®</sup> grades are formulated to resist shock loads and give ultimate strength in terms of bonding load distribution.

Construct<sup>®</sup> grades exhibit toughness and a degree of flexibility. They were designed as glass to metal bonders and to withstand the toughest of applications in glass construction.

Construct UV188 will bond glass to glass and the bonds will not break before glass failure. Construct UV188 also bonds to stainless steel and its adhesion is superior to most grades.

It is also possible to bond to many other materials especially aluminium, steel, ceramics and certain plastics.

Bond strengths give ultimate shear and tensile strength. Adhesion to metal and glass is significant and these bonds resist high impact loads and delamination often leading to glass failure.

### APPLICATIONS

Glass towers, structures, lecterns, boxes, shelves, table tops, desks, cabinet displays, trophies, steel to glass fixings, rotating bearing assemblies, glass to steel pillars, swivel structures, staircases, steps, multi layer laminates.

### TYPICAL UNCURED PROPERTIES

Resin:.....Urethane Oligomer Hybrid  
 Colour:.....Water White (translucent)  
 Solubility:.....Chlorinated Solvents and Iso Propyl Alcohol  
 Toxicity:.....Very low  
 Flash Point:.....>85°C  
 Viscosity:.....4500-6500cps @20°C  
 Specific Gravity:.....1.07

### TYPICAL CURED PROPERTIES

Resin:.....Hard – Transparent  
 Refractive Index:.....1.47 approx.  
 Tensile Strength:.....Min 16N/mm<sup>2</sup>  
 Hardness:.....70 Shore A  
 Shrinkage:.....Approx. 6%  
 Moisture Absorption:.....<1.5%  
 Impact Resistance:.....Good  
 Elongation at Break:.....1.60%

### CURE RESPONSE

UV Energy Requirement at bondline:  
 365Nm @ 5mW/cm<sup>2</sup>: Speed of cure <5 seconds to fixture  
 365Nm @ 10mW/cm<sup>2</sup>: Speed of cure <10 seconds to fixture  
 365Nm @ 10mW/cm<sup>2</sup>: Speed of cure <10 seconds to fixture

Construct UV188 can also be cured by activator and the use of special primers can enhance bonding on difficult surfaces.

### HEALTH & SAFETY

Contains small amounts of acrylic acid.  
 Avoid skin contact.  
 See Health & Safety data sheets for further information.

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