

Mounting Media: Resins



Product Data

UV Resin: **0CON-186**

Product properties:

Colour	Clear amber
Viscosity @ 25 °C	2500 +/- 500cP
Vapour pressure	< 3mm Hg @ 20 °C
Gravity @ 20 °C	1.05 - 1.10
Light transmittance	> 98% (when cured)
Refractive index	1.47
Tensile strength	100 - 140kg/cm ²

Introduction:

Logitech UV Resin is a single part urethane acrylic bonding medium. UV Resin cures within seconds once exposed to ultraviolet light. This highly effective medium is suitable for many material applications, including the bonding of glass/glass and glass/metal substrates and bonding rock, ceramic or quartz to glass slides.

Logitech UV Resin does not require heat or chemical activators to effect a cure and is easily applied. Any long wavelength ultraviolet light source with a spectral energy distribution concentrated at 365nm will effect the cure of Logitech UV Resin.

Surface preparation:

It is essential that the surfaces to be bonded are clean. Prior to bonding, surfaces should be wiped clean with Logitech Ecoclear.

Typical Chemical Analysis:

Dimethacrylate urethane diol adduct	65%
Hydroxy propyl methacrylate	25%
Polymeric plasticiser	18%
Acrylic acid	5%
Organic silanes	2%
Organic peroxides	4%
Ketonic Photoinitiator	4%

Ordering Data:

Code	Type	Pack size	Comments
0CON-185	Epoxy Pack 301	1lb Pack	2-part epoxy resin, R.I. 1.54. Suitable for a wide range of mounting and impregnation applications including thin rock section bonding.
0CON-186	UV Resin	50ml	Ultraviolet light curing urethane acrylic resin. Suitable for temporary, controlled thickness bonding applications.
0CON-287	Mounting Resin	1kg	Araldite mounting resin. Suitable for mounting a wide range of samples in Logitech Annular Saws. For use with Araldite mounting hardener.
0CON-288	Mounting Hardener	0.25kg	Araldite mounting hardener. For use with Araldite mounting resin.
0CON-307	Mounting Resin & Hardener	0.3kg each	Araldite 2011 epoxy mounting resin and hardener.

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Introduction:

Logitech Epoxy Pack 301 is a 2 part epoxy resin. It is suitable for a wide range of mounting and impregnation applications, offering good adhesion to many different materials, including the following:

Rocks, ceramics, soils, concrete, glass, quartz, metals, most plastics

Epoxy Pack 301 also exhibits very low viscosity, good pot life, is easily handled and has excellent optical properties, its refractive index is the same as that of glass.

Product Data

Epoxy Pack 301: 0CON-185

Product properties:

Colour	Opaque
Gravity	1.08
Vapour Density	> Air
Flashpoint	>200°C
Refractive Index	R.I. 1.538 to 1.540
Viscosity	25°C (parts A & B mixed - 100cps)
No. of components	2
Resin	Part A
Hardener	Part B
Mixing ratio by weight	Part A, 4 of Part B, 1 of
Mixing ratio by volume	Part A, 3 of Part B, 1 of
Curing cycle	Overnight at room temp.
Curing cycle @ 65°C	1 hour
Pot life	30 minutes for 100g sample 50 minutes for 25g sample
Shelf life	One year when stored at room temperature. Product turns amber colour beyond shelf life.



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