

MicroCoat Technologies

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GLASS and OPTICS: Structural glass bonding and repair, ultra low shrink laminating, tableware assembly, optical fiber coating and connectorization, optical device coating. This is a diverse series of products for glass to glass, metal or plastic uses.

Product Series	Description	Chemistry	Viscosity	Durometer	Comment
4271 Structural Glass Bonders	Fast bondline cure for small to medium area glass, some glass to metal. Clear.	Visible cure, low odor, no acrylic acid acrylate	600, 2000 cps; gel	D 82	Superior weathering properties, suitable for outside use. Low moisture.
787ser "No-shrink Acrylates"	Proprietary chemistry for large and deep area bonding. Clear.	Visible cure, no acrylic acid acrylic system	500; 3000 cps; gel		Incredibly fast cure, tack free, colored or near opaque substrates possible
7180ser Glass, General Use	Glass, plastic, metal laminating and bonding. Clear	Visible cure epoxies.	5000; 20,000 cps	D 45	Boiling water & chemical resistance. Compliant bonds pass extreme thermal shock.
223-2A Crack Repair	Let wick in to crack, cure & the crack disappears!	Visible cure epoxy.	150 cps	D 70	Will cure in sunlight. Good plastic and metal bonds also
7181 Low CTE Bonding	High modulus material for rigid interfaces.	Visible / Multiple Cure epoxy.	Thixotropic gel	D 90	Clear to hazy bonds depends on thickness. RI = 1.54
4171ser Connectors	< 5 min, @ 100C° cures fiber to steel; other dark areas	Single package, ambient stable epoxy or acrylate	500; 4000 cps	D 85; D 80	Quick set adhesives without 2 part, premix, frozen issues

DECORATIVE & NOVELTY. Dome, decal, photo & figurine coating, dye-accepting coatings. Crystal clear, superior weather resistance, cures tack-free with low intensity light [even with blacklight or sunlight] and perfect surfaces!

Product Series	Description	Chemistry	Viscosity	Durometer	Comment
794-2A Hard Dome Coat	Hard, abrasion resistant dome on small area decals, pen tops	UV Cure Thiol-ene	5000 cps	D 80	Achieve best surfaces with low intensity, 20 mW/cm ²
7173-5 Medium Dome Coat	Good flex, no curl, self-heals	UV / Visible Thiol-ene	3500 cps	D 45	Proprietary resin system
7147-2A Flexible Dome Coat	Very flexible, self-healing coat	UV Cure Thiol-ene	6000 cps	D 20	Coats very large areas
7192ser Functional Coatings	Dye accepting, variable gloss for variety of substrates	UV Cure epoxies	175 cps	D 80	Sprays easily, dishwasher proof, abrasion resistant

EQUIPMENT. MCT UV lamps are portable; practical for hand held applications, yet powerful enough for most industrial manufacturing lines, these lamps are UL approved and available with options for "flood or wand" operation. Also possible are 12V DC power and shuttered versions. Bulbs have undergone lifetime testing of 3000 on-off cycles with total on times of 2500 hours. This is up to 5 fold longer than the specification for any commercial wand or flood system.