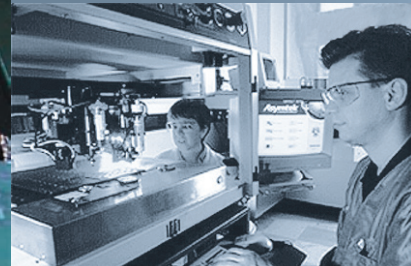
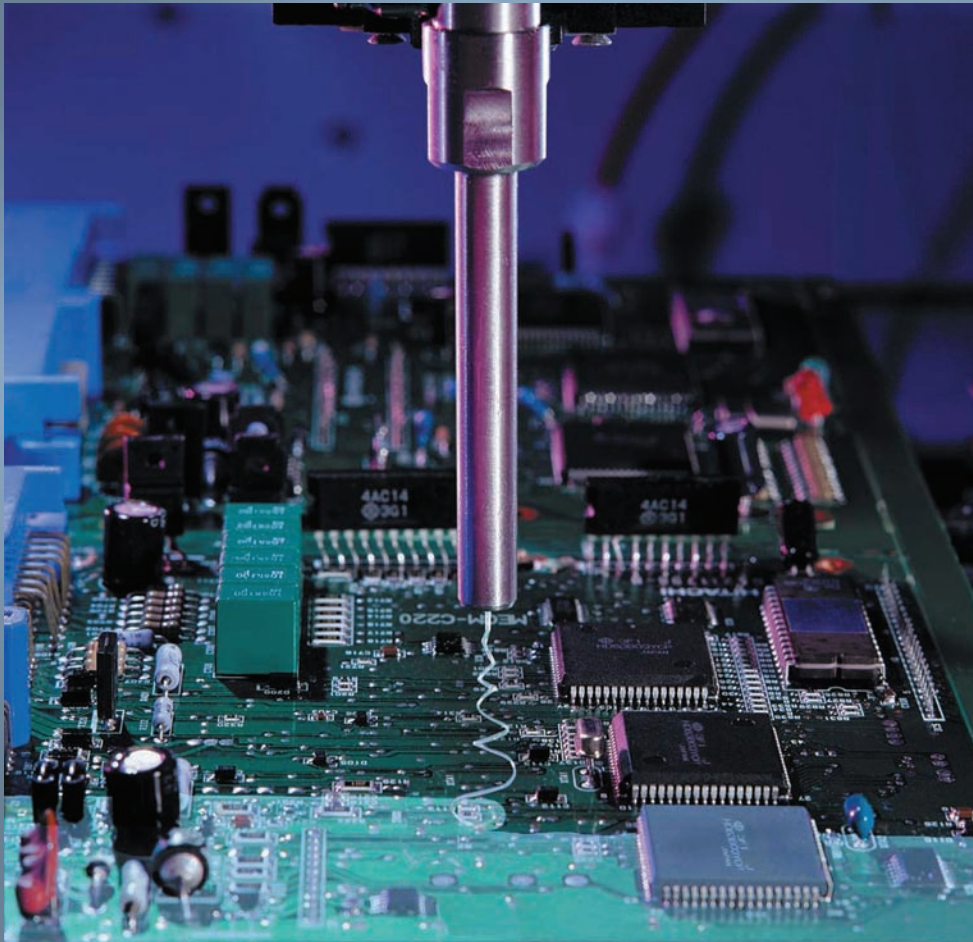


# Hysol®

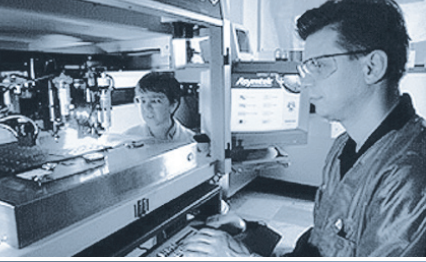


## HYSOL® PC40-UT™



Henkel provides the leading materials used inside advanced packages and on sophisticated assemblies. We also ensure superior board-level product protection through the use of Hysol® brand conformal coatings. Many applications expose printed circuit boards (PCBs) to harsh environments and Henkel is committed to delivering materials that provide extraordinary environmental and electrical protection. Our advanced conformal coating materials protect

PCBs from thermal shock, moisture, corrosive materials, and a variety of other adverse conditions to ensure long product life cycles in harsh marine, automotive, aerospace and consumer electronics applications. We also keep the environment in mind with every formulation, which is why Henkel has migrated to solvent-free, low-VOC materials and processes. Hysol® conformal coatings are available in solvent-free and fast cure materials, enabling process efficiency and environmental friendliness.



### PRODUCT DESCRIPTION

HYSOL® PC40-UT™ is a low viscosity single component, VOC free conformal coating. This product is specifically formulated to rapidly gel and immobilise when exposed to UV light, and then complete the curing process when exposed to heat, thus ensuring optimum performance even in shadowed areas. Thin layer coatings can be gelled, almost instantly, to a depth of 7 mils. HYSOL® PC40-UT™ fluoresces intensely with black light and exhibits excellent adhesion to a variety of metal, ceramic, and glass filled epoxy surfaces fulfilling the needs of the most demanding environmentally friendly applications in today's PCB marketplace.

HYSOL® PC40-UT™ provides the following product characteristics:

<b>Technology</b>	Urethane Acrylate
<b>Appearance</b>	Clear liquid
<b>Color</b>	Gardener 1
<b>Cure</b>	Ultraviolet (UV) light activation followed by heat cure
<b>Application</b>	Conformal coating

### TYPICAL PROPERTIES OF UNCURED MATERIAL

#### Typical Properties of Liquid Material

Specific Gravity @ 25°C ..... 1.05  
 Nominal Viscosity @ 25°C, cps ..... 110

### TYPICAL CURING PERFORMANCE

#### Recommended Curing Conditions

UV activated in 30 seconds @ 300 - 600 mW/cm<sup>2</sup>  
 Thermal cure for shadowed areas on a populated board:  
 20 minutes @ 150°C after UV exposure.

### TYPICAL PROPERTIES OF CURED MATERIAL

#### Physical Properties:

Hardness, Shore D ..... 80  
 Continuous Operating Range, °C ..... -40 to 135

#### Electrical Properties:

Dielectric Constant @ 25°C (1MHz)..... 2.75  
 Dissipation Factor @ 25°C (1MHz) ..... 0.012  
 Volume Resistivity, ohm/cm ..... 3.5×10<sup>16</sup>  
 Surface Resistivity, ohms ..... 3.8×10<sup>16</sup>

### GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

**Not for product specifications.** The technical data contained herein are intended as reference only. Please contact your local sales or technical service representative for assistance and recommendations on specifications for this product.

### STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage:** Storage between 8 and 28°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

**Across the Board,  
 Around the Globe.** 

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