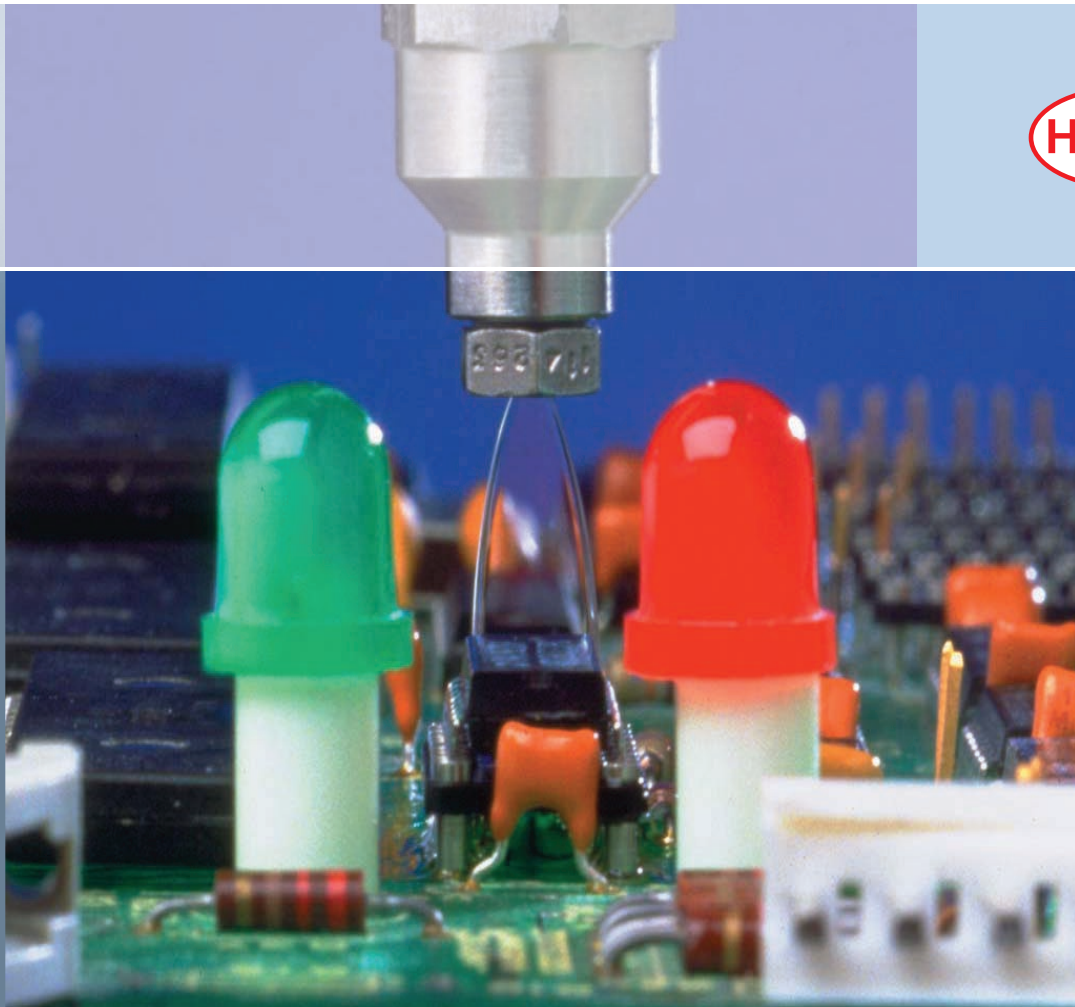


Hysol®

HYSOL® PC40-UM™



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-UM™ is a 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 atmospheric moisture, thus ensuring optimum performance even in shadowed areas. Thin layer coatings can be gelled, almost instantly, to a depth of 7 mils. HYSOL® PC40-UM™ 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-UM™ provides the following product characteristics:

Technology	Urethane Acrylate
Appearance	Clear liquid
Color	Gardener 1
Cure	Ultraviolet (UV) light activation followed by room temperature moisture cure
Application	Conformal coating

TYPICAL PROPERTIES OF UNCURED MATERIAL

Typical Properties of Liquid Material:

Specific Gravity @ 25°C 1.07
 Nominal Viscosity @ 25°C, cps 500

TYPICAL CURING PERFORMANCE

Recommended Curing Conditions

UV activated in 30 seconds @ 300 - 600 mW/cm²
 Moisture cure for shadowed areas on a populated board:
 2 to 3 days @ 25°C, 25-85% RH for secondary cure.

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 3.5×10¹⁶
 Surface Resistivity, ohms 3.8×10¹⁶

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. Any tank should be pressurized with dry nitrogen.

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. Once opened, containers should be purged with dry nitrogen.

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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