

## HumiSeal® 2UV10 Technical Data Sheet

Humiseal 2UV10 is a two component UV gellable poly Urethane system. This system can realize a tack free surface and functional strength with UV exposures as short as 20 seconds. The secondary reaction ensures shadowed areas are completely polymerized.

### APPLICATIONS

- Potting
- Encapsulating

### FEATURES

- Two-Component System
- Fast UV Gel
- Room Temperature Cure

### SUBSTRATES

- Metals
- Plastics

### Properties of HumiSeal® 2UV10 Liquids

Chemical Class	Acrylated Polyurethane
Viscosity Part A (25 °C, sp. 7 @ 20 rpm, cps)	80,000 – 120,000
Viscosity Part B (25 °C, sp. 6 @ 20 rpm, cps)	500 – 12,000
Specific Gravity at 25°C (Part A / Part B)	1.15 / 1.00
Color (Part A / Part B)	Clear / Clear
Mix Ratio, by volume (A:B)	1 : 2
Cure Time @ 25 °C	24-48 hours
Cure Type	2-part urethane, UV gellable
Curing Conditions	24 hours @ room temp., post UV exposure
Shelf Life, DOM, stored at 18 +/-10 °C	90 days
Recommended UV Gelling Conditions	
Dosage	3 J/ cm <sup>2</sup> min.
Spectrum	UVA

Heat is also an important component with UV cure, and different systems produce different heat outputs. Higher heat levels allow UV gel at lower dose/irradiance levels. Consequently, Humiseal recommend that curing is discussed with HumiSeal® Technical staff to ensure the exact customer process being used will meet the coating gel requirements. After UV exposure and return to room temperature the coating should be tack free.

HumiSeal® 2UV10 was designed to be cured using a microwave UV oven. Arc systems can cure HumiSeal® 2UV10 however care must be taken during the equipment selection process to ensure minimum dosage and irradiance values obtained will properly gel the coating. Because of the variations possible in curing equipment type and configuration, it is strongly recommended that you contact HumiSeal Technical Support to discuss your equipment and process in detail.

### Properties of Cured HumiSeal® 2UV10

Cleanup Solvent	Isopropyl alcohol
Color (cured)	Clear
Typical Hardness, Shore A	85
Dielectric Strength, V/mil	500
Moisture Resistance	Excellent
Elongation (typical)	45%
Tensile Strength, MPa, [psi] (typical)	4.5 [650]

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### Storage

HumiSeal® 2UV10 Part A and 2UV10 Part B should be stored in a cool, dry place between 8°C and 28°C in tightly closed containers. Keep from freezing.

### Caution

Application of HumiSeal® 2UV10 should be carried out in accordance with local and national health and safety regulations. Use only in well-ventilated areas to avoid inhalation of vapor. Avoid contact with skin and eyes.

Consult SDS prior to use.

## Contact HumiSeal®

### HumiSeal North America

201 Zeta Drive  
Pittsburgh, PA 15238  
USA  
Tel: +1 412-828-1500  
Toll Free (US only): 866-828-5470  
[sales@humiseal.com](mailto:sales@humiseal.com)

### HumiSeal Technical Center

295 University Avenue  
Westwood, MA 02090  
USA  
Tel: +1 781-332-0734  
Fax: +1 781-332-0703  
[techsupport@humiseal.com](mailto:techsupport@humiseal.com)

### HumiSeal Europe

505 Eskdale Road, IQ Winnersh  
Berkshire RG41 5TU  
UK  
Tel: +44 (0)1189 442 333  
Fax: +44 (0)1189 335 799  
[europesales@chasecorp.com](mailto:europesales@chasecorp.com)

### HumiSeal India

J-154, M.I.D.C Bhosari  
Pune 411 026  
Maharashtra  
India  
Tel: +91 20 66308098  
[indiatechsupport@chasecorp.com](mailto:indiatechsupport@chasecorp.com)

### HumiSeal S.A.R.L

4/6 Avenue Eiffel  
78420 Carrieres-Sur-Seine  
France  
Tel: +33 (0) 1 30 09 86 86  
Fax: +33 (0) 1 30 09 86 87  
[humiseal.sarl@chasecorp.com](mailto:humiseal.sarl@chasecorp.com)

### HumiSeal Asian Support

Tel: 852-9451-6434  
Fax: 852-2413-6289  
[asiatechsupport@humiseal.com](mailto:asiatechsupport@humiseal.com)

### HumiSeal Europe Support

Tel: +44 (0)1189 442 333  
Fax: +44 (0)1189 335 799  
[europetechsupport@chasecorp.com](mailto:europetechsupport@chasecorp.com)

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