

HumiSeal[®] UV14 UV Urethane Technical Data Sheet

HumiSeal[®] UV14 is a fast curing urethane acrylate system for adhesion to difficult to bond plastics. In addition to the UV cure this material has a secondary moisture cure mechanism to ensure cure in areas shadowed in UV light. This product also has excellent resistance to moisture and maintains flexibility at low temperatures

Properties of HumiSeal[®] UV14

Typical Properties of Uncured Material

Property	Value
Chemical Class	Acrylated Urethane
Color, Parts A : B	Purple
Specific Gravity A	1.11
Viscosity, @ 25°C, Spn7 @ 20RPM, cps	20,000 – 25,000
Cleanup Solvent	Isopropyl Alcohol

Cure Overview

Gel Time @ RT, min, 100g	10-12
Cure Time @ RT, hrs	24
Cleanup Solvent	Isopropyl Alcohol

Secondary Cure Overview

Gel Time @ RT, min, 100g	10-12
Cure Time @ RT, hrs	24
Cleanup Solvent	Isopropyl Alcohol

Typical Properties of Cured Material

Hardness, Shore D	50
Elongation at Break, %	>75
Operating Temperature, °C	-20 to 120

HumiSeal[®] UV14 was designed to be cured using a microwave UV oven. Arc and LED systems may cure HumiSeal[®] UV14; however, care must be taken during the equipment selection process to ensure minimum dosage and irradiance values obtained will properly cure the coating.

Heat is also an important component with UV cure, and different systems produce different heat outputs. Cure testing

was done in an open system and results will vary with application. Because of the variations possible in curing equipment type and configuration, it is strongly recommended that you contact Resin Designs Technical Support to discuss your equipment and process in detail.

Keep stored between 8°C and 28°C in tightly closed, light-blocking containers away from direct sunlight. Please refer to product labeling for shelf-life information. Consult SDS for safe handling recommendations.

Caution

Application of HumiSeal® product should be carried out in accordance with local and National Health and Safety regulations. Consult SDS/MSDS for safe handling recommendations prior to use.

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