

# Quad-Cure<sup>®</sup> UV

## TECHNICAL DATA

### TYPICAL PERFORMANCE CHARACTERISTICS\*

#### LIQUID COMPONENTS

CHARACTERISTICS	TEST METHOD	PERFORMANCE
Viscosity @ 77°F   25°C	ASTM D1475-85	1,050 mPa•s
Density	ASTM D1475-85	1.1 g/cm <sup>3</sup>
Flash Point	Seta Flash Closed Cup	>212°F   >100°C
Stability, no init., dark, 77°F   25°C	ASTM D1475-85	6 months

\*The values stated in inch-pound units are to be regarded as the standard. The values given in international system are for information only.

#### HARDENED RESIN MECHANICAL PERFORMANCE

CHARACTERISTICS	TEST METHOD	PERFORMANCE
Tensile strength	ASTM D638	50 mPa•s
Young's modulus	ASTM D638	3.0 GPa
Elongation at break	ASTM D638	>2.0%

#### COMPOSITE MECHANICAL DATA

CHARACTERISTICS	TEST METHOD	PERFORMANCE
Tensile strength	ASTM D638	300 mPa•s
Young's modulus	ASTM D638	12.0 GPa
Elongation at break	ASTM D638	>3.0%

Contains one layer of kombimat glass (1,050 g/m<sup>2</sup>).



## Methacrylate Resin For UV CIPP Applications

### DESCRIPTION

Quad-Cure<sup>®</sup> UV is a low viscosity, highly reactive UV curing resin based on methacrylate esters. The resin is styrene free and considered an excellent solution for colder and more environmentally sensitive conditions.

### TYPICAL APPLICATIONS

Quad-Cure UV resin has been developed for UV CIPP rehabilitation applications. The resin is suited for both on-site and pre impregnated liners.

### PRINCIPAL PROPERTIES

The chemical composition of Quad-Cure UV ensures good chemical resistance performance. All the components have high flash point >203°F | 95°C, which guarantees no VOC emissions or strong odor.

### CURING CONDITIONS

Quad-Cure UV resin already contains the required amount of photoinitiator. For proper curing, the resin must be irradiated by UV light (at least 10 mW/cm<sup>2</sup> from about 2.0 in | 5 cm distance). The applied initiator allows the use of high pressure mercury lamps or UV-LEDs for curing.

### STORAGE GUIDELINES

Quad-Cure UV resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 41°F and 86°F | 5°C and 30°C. Properties might slightly change during storage. Store in dark and in 100% light tight containers only. Avoid contact of the resin with day light during handling operations as day light may lead to immediate curing reactions.

### GUIDELINES BEFORE USE

Product must be stirred before using.

### MATERIAL SAFETY

A Safety Data Sheet (SDS) is available on request.