



QUAD-CURE® UV METHACRYLATE RESIN TECHNICAL DATA SHEET

Rev. 03-23-2020



REPAIR MATERIALS

Typical Performance Characteristics

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit
Viscosity, 25°C	1050	mPas
Density	1.1	g/cm ³
Flash point	>100	°C
Stability, no init., dark, 25°C	6	months

PROPERTIES OF THE CURED RESIN (TYPICAL VALUES)

Property	Value	Unit
Tensile strength	50	MPa
Young's modulus	3.0	GPa
Elongation at break	2.0	%

PROPERTIES OF THE CURED COMPOSITE* (TYPICAL VALUES)

Property	Value	Unit
Tensile strength	300	MPa
Young's modulus	12.0	GPa
Elongation at break	3.0	%

*contains one layer of Kombimat glass (1050 g/m²)

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METHACRYLATE RESIN FOR UV CIPP APPLICATIONS

DESCRIPTION

Quad-Cure® 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 (>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/cm² from about 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 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 is available on request.

TEST METHODS

Test methods referred to in the table(s) are available on request.