

PRODUCT NAME

ALPHALite UV Resin Short Liner

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PRODUCT INFORMATION

AlphaLite UV Short Liner Resin is a low viscosity, highly reactive UV curing resin based on methacrylate esters. The resin is a low-shrinkage styrene free product.

AlphaLite UV Long Liner Resin has been developed for the UV cure pipe rehabilitation process, especially recommended for Short-Liner (Patch Repair) method in buried pipelines made of vitrified clay or concrete pipes. The resin can be used matrix material for in-situ or for pre-impregnated composites.

The chemical composition of AlphaLite UV Short Liner Resin ensures good chemical resistance performance. All the components have a high flash point of >95°C which guarantees no VOCs emission or high level of smell.

Properties of the Liquid Resin		
Property	Value	Unit
Viscosity, 25°C	1500 ± 150	mPas
Density, 25°C	1.1 ± 0.05	g/cm ³
Flash Point	>100	°C
Properties of The Cured Resin without reinforcement		
Property	Value	Unit
Tensile Strength	>40	MPa
Youngs Modulus	>2500	MPa
Elongation at break	>2	%
Glass Transition Temperature	50	°C
Adhesion on verified clay surface	>2	MPa

Properties of the Cured Composite*		
Property	Value	Unit



Tensile Strength	>240	MPa
Youngs Modulus	10000	MPa
Elongation at break	2.0	%

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

Attention! AlphaLite UV Long Liner Resin cures when in contact with UV light. All containers should be stored in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°. Properties might slightly change during storage. Store in dark and 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.

Scott & Fyfe Ltd delivers the manufactured Resin usually in 30kg drums, or by demand also in 5kg cans. ALPHA resins may be used only by educated trained personnel who participated at the (free of-charge) training course organized by Scott & Fyfe Ltd and who passed an exam successfully.

Before use, the material safety data sheets (MSDS) related to the concrete ALPHA product that is delivered with the components shall be read carefully and kept available at the place of use.

During the work the use of protective measures (gloves, glasses etc.) is compulsory, according to the material safety data sheets!

With regard to the continuous product development, Scott & Fyfe reserves the right for changes.