



Systems for Decoupage and Decorative Tabletops

Description

A combination of epoxy resin E-Pos 978 and the hardener Q-RIT 369, mixed in a 2:1 by volume ratio, has been specifically developed for the production of decorative table-tops. It is also suitable for use in decoupage and hobby applications. The resin system has low viscosity, is water white with high reactivity. The system can be pigmented using suitable pigment pastes. Q-RIT 369 is a 50/50 mixture of hardeners Q-RIT 368 and Q-RIT 306 and is the optimal blend for this application. For thick table tops QR-Polymers offers the lower exotherm equivalent Q-RIT 369LE.

The resin is made from renewable raw materials sourced from plants.



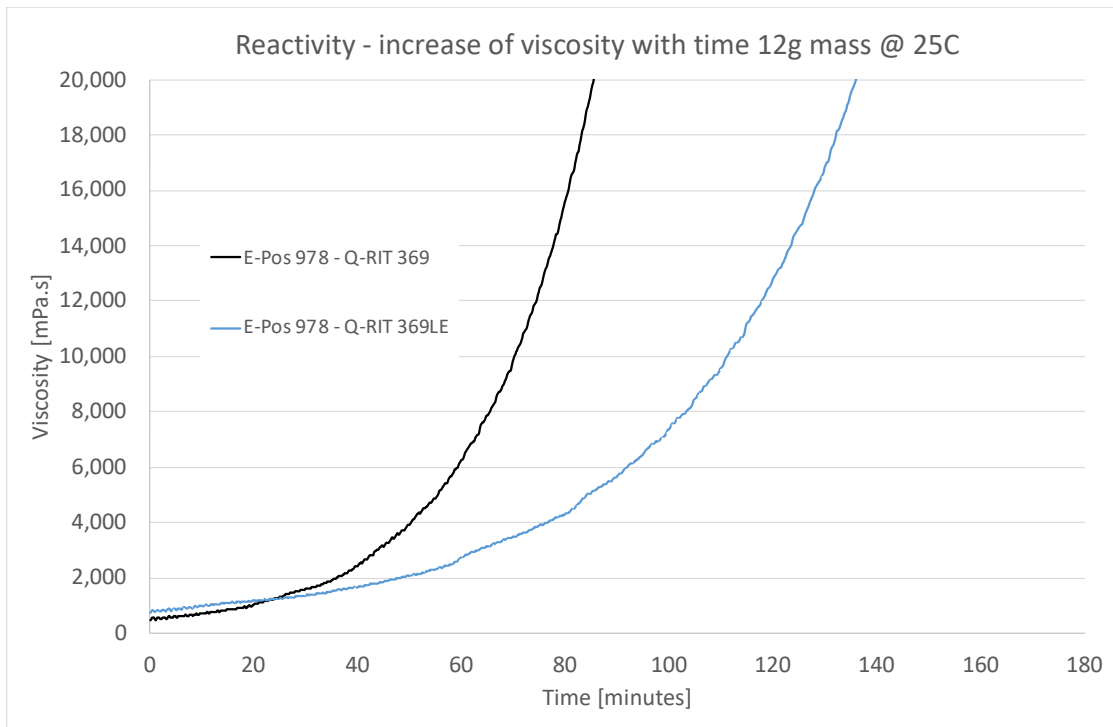
The high renewable content of the system is certified under the United States Department of Agriculture's (USDA's) BioPreferred® program and carries the USDA BioPreferred® label.

Details of the scheme can be found at www.biopreferred.gov. The certified biocarbon content of the system is 29% as indicated on the label above.

Generally, the cure speed and peak exotherm will increase with increasing resin thickness and increasing ambient temperature. Recommended mix ratio is 2:1 Resin:Hardener by volume. Details of cure characteristics from studies in the laboratory can be found in the table below. The workable life of the system after mixing is generally around half the gel time but is highly dependent on the volume of the mix and the ambient temperature. Care should be taken on mixing to minimise the amount of trapped air bubbles. Air bubbles can be removed from the system after application, but before cure, by use of a hair dryer or heat gun.

System characteristics

The increase of viscosity of the system E-Pos 978 cured with both Q-RIT 369 and 369LE is depicted below, clearly showing the slower curing behaviour of the Q-RIT 369LE^a.



Resin:hardener system Volume ratio: 2:1	Initial mixed viscosity, mPa.s	Approximate working life ^a , minutes	Comment
E-Pos 978 + Q-RIT 369	340	60	29% biocarbon content ^b
E-Pos 978 + Q-RIT 369LE	500	100	29% biocarbon content ^b

Q-RIT 369 is a 50/50 mixture of Q-RIT 368 and Q-RIT 306
Q-RIT 369LE has a modified additive package to Q-RIT 369

^a 12 g mass @ 23°C, working life is an estimate and will vary with volume and temperature
^b Certified by USDA



Care should be taken with the cure exotherm especially in thick films. The peak exotherm will increase with film thickness.

For thicker films we recommend Q-RIT 369LE and for the thickest films production in stages.

For revitalization of kitchen or bathroom countertops the systems can be pigmented if required with epoxy-based pigment paste.

Reasonable precautions should be taken when using these products to avoid contact with eyes and skin. Please consult the relevant safety data sheets and always wear gloves and eye protection when using these products.

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