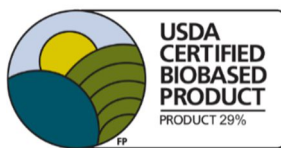




E-Pos 973, Q-RIT 306/Q-RIT 368, Q-RIT 369 High Renewable Carbon Content Systems for the Production of Floorings and Adhesives

Description

QR-Polymers have developed systems with a high renewable (bio)carbon content which are suitable for the production of epoxy floorings and ambient cure two pack epoxy adhesives. The systems are suitable for all types of floorings such as self-leveling or trowelable as well as fast cure two pack adhesives. The systems are fast curing at ambient temperature and the cure speed can be varied by changing the ratio of Q-RIT 368 and Q-RIT 306. The optimal blend is 1:1 and for the convenience of our customers we offer this 1:1 blend ready mixed as Q-RIT 369.



The high renewable content systems are certified under the United States Department of Agriculture's (USDA's) BioPreferred® program and carry 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.

The E-Pos 973 and Q-RIT 369 system is water white and has superior colour stability than conventional epoxy systems for floorings. It exhibits excellent chemical resistance, toughness and adhesion to a variety of substrates. The low viscosity allows incorporation of fillers and provides excellent substrate wetting and leveling properties.

E-Pos 973 is a low viscosity epoxy resin and should be mixed with any of the above hardeners at the recommended dose rate of 2:1 by volume (100 parts resin to 45 parts hardener by weight), in order to meet the requirements of the USDA certification.

We recommend the preblended Q-RIT 369 which gives an optimal balance of properties and corresponds to a 1:1 ratio of epoxy to amine groups in the system. The initial mixed viscosity of the systems is very low at around 340 mPas. Changes can be made to the hardener ratio to fine tune the properties of the system, notably reactivity and pot life. Q-RIT 368 has a higher reactivity than Q-RIT 306.



The E-Pos 973 system can be filled in the conventional way to produce self-leveling or trowelable floorings or two component epoxy adhesives for a variety of applications.

System characteristics

Resin:hardener system Volume ratio: 2:1	Initial mixed viscosity, mPa.s	Gel Time ^a , minutes	Cure time ^a , minutes
E-Pos 973 + Q-RIT 369	340	170	500
29% biocarbon content in system at recommended mix ratio. Certified by USDA.			
[Q-RIT 369= a 50/50 blend of Q-RIT 306 and Q-RIT 368]			

^a 20 g mass @ 23°C

Care should be taken to avoid an excessive cure exotherm after mixing resin and hardener especially in large volumes.

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