

BYK-P 2710 BYK-P 2720

Viscosity Control Technology (VCT) – Processing Additives for Epoxy Systems

Viscosity Control Technology contains a couple of well-engineered additives to design viscosity levels of thixotropic resin systems.

High application viscosities and high sag resistance immediately after mixing the resin and hardener for application purposes remain unchanged compared to standard systems.

BYK-P 2710 and BYK-P 2720 are recommended for solvent-free and solvent-borne epoxy resins containing hydrophilic fumed silica for anti-sagging properties in medium/high viscous systems.



BYK-P 2710 – Thixbreaker

- Add to epoxy resin
- Effective with hydrophilic, fumed silica
- Resin viscosity can be adjusted and controlled
- A high amount of additive blocks the structural build-up of the hydrophilic fumed silica and avoids an increase in viscosity



BYK-P 2720 – Thixbooster

- Add to amine hardener
- Effective with hydrophilic, fumed silica
- Hardener viscosity can be adjusted and controlled
- Dosage must be calculated always on the amount of hydrophilic fumed silica in the entire system

Viscosity Control Technology

A new technology based on a couple of well-synchronized processing additives. There is one additive for reducing initial viscosity (Thixbreaker) and a matching one (Thixbooster) ensuring the final application viscosity.

Benefits



Process + Quality

- Shorter production time
- Adjusted viscosities are leading to better mixing quality
- Lower viscosities permit lower pressure and greater output in metering machines

Applications



- Close contour pastes
- Chemical anchors
- Gelcoats or protective coatings
- Adhesives and sealants
- Putties
- Floorings

Recommended Dosage



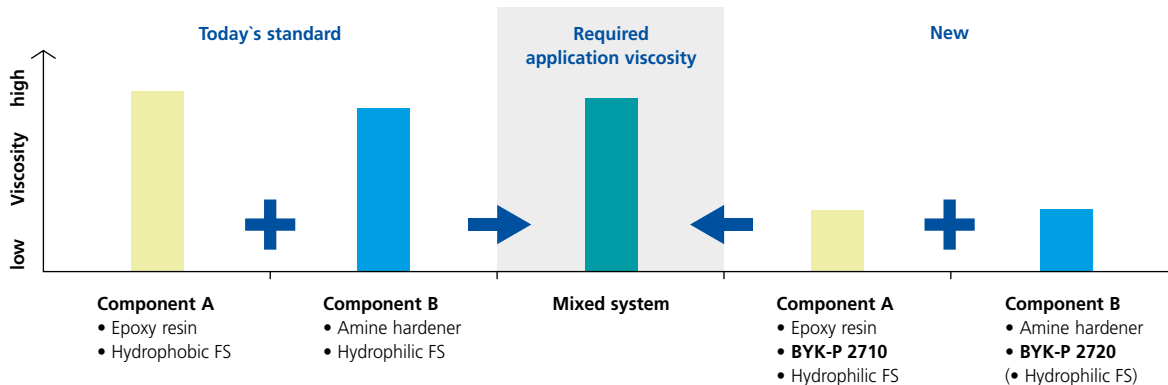
- BYK-P 2710 (Component A): 50–100 % as supplied added to resin based upon fumed silica
- BYK-P 2720 (Component B): 5–50 % as supplied added to hardener calculated on fumed silica in total system



VCT adjusted viscosities lead to a better and easier mixing ...

... and instantly maintain a high application viscosity

Viscosity Control Technology – Low Viscosity During Production but High Application Viscosity after Mixing



Consideration of Complete Value Chain: Benefits of New VCT

The concept of Viscosity Control Technology has a highly beneficial effect on the total value chain

Formulation	Production	Transportation	Application
<ul style="list-style-type: none"> • Use of cheaper hydrophilic fumed silica instead of hydrophobic fumed silica 	<ul style="list-style-type: none"> • Shorter production time due to lower viscosities and faster incorporation 	<ul style="list-style-type: none"> • New packaging and transportation opportunities 	<ul style="list-style-type: none"> • Adjusted viscosities are leading to better mixing quality • Lower viscosities permit lower pressure and greater output in metering machine • High sag resistance remains unchanged

BYK
Additives & Instruments

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

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