

Viscosity Control Technology (VCT) is based on a combination of two processing additives (Thixbreaker and Thixbooster). These specifically matching additives enable the control of the initial viscosity of the system. The application viscosity remains unaffected.

BYK-P 2710

Processing additive for solvent-free and solvent-borne epoxy resins for the adjustment of rheological properties of 2-K systems in combination with hydrophilic fumed silica (Thixbreaker).

Product Data

Composition

Hyperbranched polyester

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C): 1.04 g/ml

Viscosity (23 °C): 4500 mPa·s

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Store below 40°C.

Special Note

Important!

In order to achieve a sufficiently high application viscosity in the final application, BYK-P 2710 must be combined with a hardener that contains BYK-P 2720.

Applications

Thermosets

Special Features and Benefits

BYK-P 2710 is added to the epoxy resin containing the hydrophilic fumed silica. Resin viscosity may be controlled by adjusting the levels. The additive blocks the structural build up of the fumed silica, so that there is no increase in viscosity and the low initial viscosity of the resin is retained.

BYK-P 2710 must be combined with BYK-P 2720 (added to the hardener) in order to achieve a high application viscosity. Only the combination ensures high anti-sagging properties which enable the system to be applied above the head or on vertical surfaces without sagging. Additional information on BYK-P 2720 is provided in the technical data sheet BYK-P 2720.

Recommended Use

Recommended for epoxy resins that contain hydrophilic fumed silica.

Composite mortar systems	<input checked="" type="checkbox"/>
Close contour pastes	<input checked="" type="checkbox"/>
Gel coats	<input checked="" type="checkbox"/>
Filler	<input checked="" type="checkbox"/>
Additional applications	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

50-100 % additive (as supplied), always based on the dosage of hydrophilic fumed silica used in the epoxy resin.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-P 2710 can be added to the resin before or after addition of the silica during stirring.

Special Note

BYK-P 2710 and BYK-P 2720 are effective only in combination with hydrophilic types of silica. The amount of additive depends on the type and quantity of silica used.

Coatings

Special Features and Benefits

BYK-P 2710 is an additive for adjusting the viscosity in epoxy resin coating applications in which hydrophilic fumed silicas have been used as thixotropes. The mode of action of BYK-P 2710 allows to achieve low viscosities in liquid coating systems. The advantages of a low viscosity are particularly apparent in the production and subsequent processing of resin systems by making handling of the system easier and faster.

BYK-P 2710 must be combined with BYK-P 2720 (added to the hardener) in order to achieve a high application viscosity. Only the combination ensures high anti-sagging properties which enable the system to be applied above the head or on vertical surfaces without it sagging.

Additional information on BYK-P 2720 is provided in the technical data sheet BYK-P 2720.

Recommended Use

Recommended for epoxy resins that contain hydrophilic fumed silica.

Gel coats	■
Protective-coatings	■
Flooring applications	■
Mortar	■

■ especially recommended □ recommended

Recommended Levels

50-100 % additive (as supplied), always based on the dosage of hydrophilic fumed silica used in the epoxy resin.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-P 2710 can be added to the resin before or after addition of the silica during stirring.

Special Note

BYK-P 2710 and BYK-P 2720 are effective only in combination with hydrophilic types of silica. The amount of additive depends on the type and quantity of silica used.

Adhesives & Sealants**Special Features and Benefits**

BYK-P 2710 is an additive for adjusting the viscosity in epoxy resin applications for adhesives and sealants in which hydrophilic fumed silicas are used. BYK-P 2710 blocks the build-up of the silica network, which prevents a large increase in initial viscosity.

BYK-P 2710 must be combined with BYK-P 2720 (added to hardener) in order to achieve a high application viscosity. Only the combination ensures high anti-sagging properties which enable the system to be applied above the head or on vertical surfaces without it sagging or dropping.

Additional information on BYK-P 2720 is provided in the technical data sheet BYK-P 2720.

Recommended Use

Recommended for epoxy resin-based adhesives and sealants that contain hydrophilic fumed silica.

Recommended Levels

50-100 % additive (as supplied), always based on the dosage of the hydrophilic fumed silica used in the epoxy resin.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-P 2710 can be added to the resin before or after addition of the silica during stirring.

Special Note

BYK-P 2710 and BYK-P 2720 are effective only in combination with hydrophilic types of fumed silica. The amount of additive depends on the type and quantity of fumed silica used.



Additive Guide



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