



Thickener for emulsion paints and aqueous paint systems

glycol ether free, VOC-free according to the European Directives 1999/13/EC and 2004/42/EG

Description

Borchi® Gel L 76 is a polyurethane based, non-ionogenic thickener. It is supplied as a low-viscosity preparation in water in the form of an emulsion. It acts as a flow promoter and improves the application properties of emulsion paints. It also stabilises aqueous pigmented paints.

Co-solvent free

Characteristic data

Appearance:	colorless to slight yellowish, clear to slight cloudy liquid	
Free of swelling agents:	yes	Borchers test method 100-06: (spatula run-off test)
Non-volatile content, %:	47 - 53	DIN EN ISO 3251 (1g, 1h, 125 °C)
Viscosity (23 °C), mPa·s:	< 9,000	DIN EN ISO 3219 (A.3 rotation)
Flash point, °C:	> 100 (typical)	

Properties

Borchi® Gel L 76 improves the rheological properties of aqueous coating systems. It allows better and easier application of the paint with brush or roller. As a result of its beneficial effect on flow properties, **Borchi® Gel L 76** has proved particularly useful in acrylic high-gloss paints and anti-corrosion paints. The thickening action may be reduced by polar, water-soluble substances, e.g. alcohols and glycols. Non-polar substances such as Texanol®, or white spirit tend to increase viscosity, on the other hand. **Borchi® Gel L 76** can be combined with other thickeners.

A maturing time of at least 3 hours should be allowed before final evaluation of the thickener action.

Borchi® Gel L 76 is manufactured using aliphatic isocyanates; it has thus no negative influence on yellowing and chalking of coating film.

Applications

Borchi® Gel L 76 can be used in pure acrylic, styrene acrylic and styrene butadiene emulsions.

It can also be used even in water-emulsifiable 2-component systems and in air- and stove-drying paints. The action of **Borchi® Gel L 76** is unaffected by the pH of the formulation.



Use and Dosage

Borchi® Gel L 76 is easy to use. Because of its low intrinsic viscosity, it can also be added after mixing without pre-dilution for adjustment of viscosity.

The recommended amount is 0.1 - 2.0 % by weight in the supply form relative to the formulation.

Higher dosages are generally needed for production of gloss paints. It should be dissolved directly in the solvent in question and added to the mill base. The exact amount should always be determined beforehand in trials.

Storage

Protect from the effects of weathering and store at temperatures between 5 and 30 °C.

Once opened, containers should be resealed immediately after each removal of the product.

Safety

The product is not a hazardous substance under the terms of the German Chemicals Law and does not require special labelling to comply with EU Directives. It is not a hazardous product for transport purposes.

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