



Non-ionic polyurethane-based low shear range thickener for waterborne coatings systems. Contains no emulsifiers, Tin-free, APEO-free

## Description

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**Borchi® Gel 0620** is a liquid polyurethane based thickener that is free of alkylphenol ethoxylates (APEO) and tin compounds. It develops viscosity stability mainly in the low shear range (<1000 s<sup>-1</sup>) depending upon the binder type and other ingredients in the coating.

**Borchi® Gel 0620** is suitable as a thickening agent for all waterborne systems including industrial and decorative coatings, adhesives and knifing fillers.

This product contains approx. 19 % 2-Butoxyethanol (Butyl glycol).

## Characteristic Data

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Appearance	Opalescent, high-viscous liquid	
Non-volatile content	38 - 42 %	ISO 3251 (2g, 3h, 105 °C)
Density	1.020 - 1.070 g/cm <sup>3</sup>	DIN 53217 (23 °C)
Viscosity	Max. 15000 mPa·s	ISO 3219(A)-1994 (23 °C)
Solvent	Water	

## Properties

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**Borchi® Gel 0620** improves the rheological properties of waterborne coating systems at the lower shear (< 1000 s<sup>-1</sup>) region which contributes to anti-sagging, non-settling and improved separation on storage. It enables the application of thick layers on vertical surfaces and effectively prevents sagging.

**Borchi® Gel 0620** is made with aliphatic isocyanates so it does not yellow or cause chalking in the cured film.

## Applications

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**Borchi® Gel 0620** develops a strong pseudoplastic flow behavior and can be used in E-coat and spray applications. Improved brush and roller application can be achieved when **Borchi® Gel 0620** is combined with a high-shear thickener such as Borchi® Gel 0434 or Borchi® Gel 0435. Optimum flow and leveling properties contribute to the improved appearance of the dried film.

## Dosage

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**Borchi® Gel 0620** is easy to use and can be added at any stage of the formulation. The best incorporation method is to add it after the pigment/filler dispersion but prior to being let down. Under low-shear mixing conditions a pre-dilution in water or a mixture of water / propylene glycol may be necessary for complete incorporation.



Typical usage levels are 0.2 - 3.0 % of the total weight of the formulation depending upon the type and amount of binders, pigments and fillers used. Gloss paints generally require higher amounts.

The exact dosage should be experimentally determined.

## Storage

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Protect from the effects of weather and store at temperatures between 5 and 30 °C. Once opened, containers should be resealed immediately each time product is removed.

Transportation may cause the incorporation of foam, which has no negative influence on application properties. This foam will disappear after gentle stirring.

## Safety

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The product is not subject to the German Regulation on hazardous material and no labelling is required in accordance with the EEC directives. It is not dangerous cargo.

Please refer to our safety data sheet for information relating to product safety.

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