



Adhesion promoter for stoving paints

Description

Borchi® Gen HMP is an additive to improve adhesion, used mainly in baking paints and primers.
Borchi® Gen HMP is completely silicone-free.

Characteristic data

Appearance:	light yellow liquid	
Solid content, %:	78 – 83	DIN 53216 (2g, 3h, 105 °C)
Viscosity (20 °C), mPa·s:	1,000 – 2,000	DIN 53015
Density (20 °C), g/cm³:	approx. 1.09	
Colour, Gardner:	max. 3	DIN EN ISO 4630
Flash point, °C:	approx. 33 (typical)	
Refractive number (20 °C):	approx. 1.474 (typical)	

Properties

Borchi® Gen HMP is used to improve adhesion, predominantly in baking systems.

Since **Borchi® Gen HMP** is highly compatible with most binders, it can be used universally and even in water-borne one-coat systems, for example. Clear improvement in adhesion is attainable, particularly on aluminium and non-ferrous metals.

Applications

Borchi® Gen HMP brings about significant improvement in adhesion in alkyd baking paints and primers, even on difficult substrates such as zinc and aluminium.

In addition to improved adhesion, increased film elasticity is also achievable.

Borchi® Gen HMP is color-fast even at higher temperatures. Sudden changes in temperature and curing temperatures up to 280 °C do not therefore cause adverse effects.

On the basis of available experience, no adverse effects of the weathering resistance and shelf-life of the paints was observed.



Use and Dosage

With certain types of titanium dioxide and pigments after-treated with zinc oxide, reduction in gloss may occur during storage of the paint.

Borchi® Gen HMP is a liquid and is therefore easy to incorporate. In most cases optimum results are achievable with an addition of approximately 2 % relative to total paint formulation. Larger amounts may be added under certain circumstances to improve elasticity. **Borchi® Gen HMP** can be added either during manufacture of the paint or subsequently.

If the additive is to be used in water-based paints, it should first be neutralised. We recommend dilution of **Borchi® Gen HMP** with 20 % dimethylethanolamine.

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.

Borchi® Gen HMP should be protected from exposure to heat during storage.

With prolonged storage, signs of crystallisation caused by interactions may become evident. These disappear again when heated. These soft crystals also dissolve without impairing the quality of the paint when incorporating the additive into the dispersion and during milling.

Safety

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

Updated: 25.02.2009

OMG Borchers GmbH

Berghausener Str. 100 / 40764 Langenfeld / Telephone: +49 (0) 2173 – 39 26 666
Fax: +49 (0) 2173 – 39 26 999 / Internet: www.borchers.com / E-Mail: info.borchers@eu.omgi.com

Our product information is given in good faith but without warranty. This also applies where proprietary rights of third parties are involved. This information does not release the customer from the obligation to test our products as to their suitability for the intended processes and uses. The application, use and

processing of our products and the products manufactured by the customer on the basis of our technical advice are beyond our control and, therefore, entirely the customer's own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.