



Adhesion promoter for stoving paints,  
NMP-free

## Description

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

## Characteristic data

Appearance:	light yellow liquid	
Solid content, %:	78 – 82	DIN EN ISO 3251 (2g, 3h, 105 °C)
Acid value (solid resin), mg KOH/g:	80 - 120	DIN EN ISO 3682
Colour, Gardner:	max. 3	DIN EN ISO 4630
Density (20 °C), g/cm <sup>3</sup> :	approx. 1.08 (typical)	DIN EN ISO 2811

## Properties

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

Since **Borchi® Gen HMP-F** 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-F** 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-F** 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 were observed.



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## 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-F** 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-F** 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-F** with 20 % dimethylethanolamine.

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## 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-F** 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.

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## Safety

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

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