



Highly reactive tin-free catalyst  
for one- and two-component polyurethane coatings

## Description

**Borchi® Kat 24** is a highly reactive tin-free catalyst based on metal carboxylate used as accelerator for solvent-borne one- and two-component polyurethane coatings and stoving enamels based on blocked isocyanates. **Borchi® Kat 24** contains no additional organic complexing agents.

**Borchi® Kat 24** is an ecologically safe replacement for other polyurethane catalysts, especially for amines and tin-based products like DBTL.

## Characteristic data

Appearance:	clear and viscous liquid, colourless to yellowish-brown	
Active substance content, %:	approx. 75 (typical)	
Density (20 °C), g/cm <sup>3</sup> :	1.20 – 1.26	DIN 51757 (A) - 1994
Colour, Gardner:	≤ 6	DIN EN ISO 4630 - 1981
Flash point, °C:	> 100 (typical)	
Solubility:	soluble in standard organic coatings solvents, e.g. aliphatic and aromatic hydrocarbons, glycols, ketones and esters	

## Properties

**Borchi® Kat 24** accelerates the chemical reaction between the polyol and isocyanate components of polyurethane coating systems, thus allowing optimal control of the drying properties, both during forced-drying and room temperature curing.

**Borchi® Kat 24** ensures fast blocking stability of polyurethane coatings and provides increased film hardness, earlier solvent resistance and allows earlier sanding of the coating.

**Borchi® Kat 24** can be used as a replacement for tin-based products like dibutyl tin dilaurate (DBTL), in many cases yielding better coating properties than DBTL-catalyzed systems. In particular, in many systems the use of **Borchi® Kat 24** results in increased film hardness at comparable drying time.

## Applications

**Borchi® Kat 24** is particularly suitable for solvent-borne pigmented one- and two-component polyurethane coatings, e.g. for automotive refinish coatings, industrial coatings and also coil coatings formulated with blocked isocyanates. In these systems, **Borchi® Kat 24** is characterized by very good activity.



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## Use and Dosage

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Our experience has shown the recommended addition rate of **Borchi® Kat 24** to be between 0.01 and 0.03 % product, calculated on solid binder. The exact amount depends on the used binder and should be determined by means of preliminary trials.

**Borchi® Kat 24** can be added either in the supply form or diluted (e.g. in butyl acetate) to the polyol component of the coating system. **Borchi® Kat 24** should not be diluted below 10 % of the supply form, since those solutions are only stable for a limited period of time.

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## Storage

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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.

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## Safety

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

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