Borchi® Kat 0243

Tin-free catalyst
for solvent-borne two-component polyurethane coatings

Description

Borchi® Kat 0243 is a newly developed tin-free catalyst based on metal carboxylate that is used as an accelerator for solvent-borne two-component polyurethane coatings. **Borchi® Kat 0243** contains no organic complexing agents.

Borchi® Kat 0243 is a non-hazardous replacement for other polyurethane catalysts, especially for tertiary amines and DBTL.

Characteristic data

Appearance:	colourless to yellow, medium viscous liquid	
Density (20 °C), g/cm³:	0.98 – 1.02	DIN 51757 (A) - 1994
Non-volatile content, %:	59 – 69	ISO 3251 – 1974 (2g, 3 h, 105 °C)
Viscosity (20 °C), mPa·s:	max. 1,000	ISO 3219 (A) - 1994
Colour, Gardner:	max. 6	ISO 4630 - 1981
Flash point, °C:	> 61	
Solvent:	wihite-spirit with <1 % aromatics	
Solubility:	soluble in standard organic coatings solvents, e.g. white spirit, xylene, alcohols, glycols, acetone, esters	

Properties

Borchi® Kat 0243 accelerates the chemical reaction between the alcohol and isocyanate component of polyurethane coating systems, thus allowing optimum steering of the drying properties, both during force-drying and curing at room temperature.

The use of **Borchi® Kat 0243** ensures fast blocking stability of polyurethane coatings. Moreover improves solvent resistance, high film hardness and early sandability of the coating. **Borchi® Kat 0243** can be used as a replacement for dibutyl tin dilaurate (DBTL), in many systems yielding better properties, e.g. reduced yellowing and higher film hardness, than DBTL catalysed systems.

Applications

Borchi® Kat 0243 is for solvent-borne two-component polyurethane clear coats, e.g. for automotive refinishing. In pigmented coating systems, the catalytic activity may be reduced after prolonged storage. In such cases, we recommend the use of our product *Borchi® Kat 0245*.

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Use and Dosage

Our experience has shown the recommended addition rate of **Borchi® Kat 0243** to be between 0.02 and 0.06 % product, calculated on solid binder. The exact amount depends on the used binder and should be determined by means of preliminary trials.

Borchi® Kat 0243 can be added as supplied or solved in any suitable solvent (e.g. 10 % in xylene) to the polyol component of the coating system. The solution has to be homogenized by stirring. **Borchi® Kat 0243** is also soluble in polar solvents and solvents of medium polarity. However, these solutions are only stable for a limited period of time.

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

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