



Catalyst for one- and two-component PU coatings and "one-shot" PU foams

Description

Borchi® Kat 28 is a stabilized tin octoate with a metal content of approx. 28 % by wt., soluble in most organic solvents. It is a clear solvent-free liquid of low viscosity.

Borchi® Kat 28 contains no additional organic complexing agents.

Characteristic data

Appearance:	clear, slight yellowish liquid	
Metal content Sn, %:	28.0 – 29.3	Borchers PV 100-42
Density (20 °C), g/cm ³ :	1.23 – 1.27	DIN 51757 (A) – 1994
Colour, Gardner:	≤ 5	DIN EN ISO 4630
Refractive index (20 °C):	approx. 1.496 (typical)	
Viscosity (25 °C), Pa.s:	approx. 0.3 (typical)	

Properties

Polyurethane coating systems

Borchi® Kat 28 is a catalyst used as curing accelerator for solvent borne one- and two-component polyurethane coatings and stoving enamels based on blocked isocyanates. It is a replacement for other polyurethane catalysts, especially for amines and tin-based products like DBTL.

Borchi® Kat 28 allows optimal control of the drying properties, both during forced-drying and curing at room temperature. **Borchi® Kat 28** ensures fast blocking stability of polyurethane coatings and provides increased film hardness, early solvent resistance and sanding capability. **Borchi® Kat 28** can be used as a replacement for dibutyl tin dilaurate (DBTL), in many cases yielding better properties than DBTL catalysed systems.

Borchi® Kat 28 is particularly suitable for solvent borne pigmented 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 28** is characterized by its very good activity.

Polyurethane foam systems

Borchi® Kat 28 accelerates the reaction between the polyol and isocyanate component of polyurethane foam systems and therefore is an excellent catalyst for "one-shot" polyurethane foams.

Borchi® Kat 28 enables control of the foaming characteristics resulting in more homogeneous foam with improved resistance to heat and oxidational degradation.

Applications

Borchi® Kat 28 is suitable for

- one- and two-component solvent-borne polyurethane coating systems and heat-cured coatings based on blocked isocyanates
- one-shot polyurethane foam systems



Use and Dosage

For polyurethane coating systems, an addition rate of **Borchi® Kat 28** between 0.01 and 0.03 % product, calculated on solid binder is recommended, depending on the used binder and formulation. The exact amount has to be determined in preliminary trials. **Borchi® Kat 28** can be added to the polyol component of the coating system either in the supply form or diluted in a suitable solvent. Dissolved in organic solvents, **Borchi® Kat 28** is only stable for a limited period of time.

In polyurethane foam systems the recommended addition rate of **Borchi® Kat 28** is between 0.05 and 0.20 % by wt. calculated on the total formulation depending on the kind of application. It must be determined in preliminary trials.

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.

After opening the drums, a short-time consumption of **Borchi® Kat 28** is advisable. Although maximum stability is ensured by special product stabilization, the active tin content might be reduced if **Borchi® Kat 28** is exposed to air or stored unsealed or in drums with low filling level.

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.