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## Anti-skinning agent for binders containing oil

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### Description

**Borchi® Nox M2** is a synthetic organic anti-skinning agent containing no non-volatile components. It is a colorless liquid with a mild odour. **Borchi® Nox M2** is an excellent anti-skinning agent for paint systems containing oil and does not significantly affect drying.

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### Characteristic data

Appearance:	nearly colorless liquid	
Purity, %:	min. 99.0	Borchers 100-73
Colour, mg Pt/L:	max. 10	ASTM D 1209
Water content, ppm:	max. 3,000 (typical)	ASTM D 1364
Flash point, °C:	approx. 63 °C (typical)	
Viscosity (20 °C), mPa·s:	approx. 10 (typical)	
Density (20 °C), g/cm <sup>3</sup> :	approx. 0.92 (typical)	
Refractive index (20 °C):	approx. 1.443 (typical)	
Solubility:	fully miscible with all commonly used aliphatic and aromatic solvents	

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### Properties

**Borchi® Nox M2** delays the onset of drying of clear lacquers without affecting through-drying. In wrinkle-finish paints containing oil, **Borchi® Nox M2** exhibits very good anti-skinning action without adversely affecting wrinkle formation. In stoving paints based on binders which dry by oxidation, **Borchi® Nox M2** prolongs the open time of the film, thereby preventing flow problems and blistering. **Borchi® Nox M2** does not cause yellowing or discoloration and exhibits no undesirable reactivity in finished paint systems.

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### Applications

**Borchi® Nox M2** is used as an anti-skinning agent in air- and stove-drying lacquers and pigmented paints. **Borchi® Nox M2** is particularly effective in paint systems based on drying oils, alkyd resins, epoxy esters and other refined drying oils.

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### Use and Dosage

In view of its volatility, **Borchi® Nox M2** should only be added before the finished paint is poured into the can. It is incorporated by gentle stirring. Simultaneous addition of **Borchi® Nox M2** with driers is to be avoided. On account of the volatility of **Borchi® Nox M2**, paint systems modified with this product may only be stored in sealed containers.

Dosages and efficacy are dependent on the particular binder system, the pigments used and their tendency towards skinning and need to be determined beforehand in trials. Pigmented paints require on average 30 % higher quantity than corresponding clear coating systems.



For guidance, the following dosages were determined in Applications Development trials and are relative in each case to the finished paint:

- short-oil paints	0.10 - 0.15 %
- medium-oil alkyd resin paints	0.15 - 0.20 %
- long - oil clear lacquers and long - oil, fast drying alkyd resin paints	0.30 %

## 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<sup>®</sup> Nox M2** must not be stored in containers made of copper, brass, lead, aluminium or PVC as chemical reactions with these metals may take place and discoloration may occur under certain conditions, thereby reducing the efficacy of its anti-skinning action. Iron, zinc and tin containers are unlikely to affect **Borchi<sup>®</sup> Nox M2**. Glass, steel and stainless steel containers are especially suitable for **Borchi<sup>®</sup> Nox M2**. In view of its volatility, **Borchi<sup>®</sup> Nox M2** may only be stored in sealed containers.

## Safety

**Borchi<sup>®</sup> Nox M2** causes local irritation of skin and mucous membranes. Care must therefore be taken to ensure that such regions do not come into contact with **Borchi<sup>®</sup> Nox M2**. In the event of the slightest contamination, affected regions need to be cleaned immediately. Good ventilation is essential when applying **Borchi<sup>®</sup> Nox M2**.

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

Updated: 25.02.2009

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