

## Borchi® Phoenix

High-performance accelerator to enhance the drying performance of 8% manganese neodecanoate drier (e.g., Borchers® Deca Manganese 8 or 8% Manganese Ten-Cem®) in solvent-based and high solids alkyd resins.

### Physical Characteristics

Appearance	Clear, colorless to orange liquid
Viscosity	Max. 50 mPa·s (20 °C) ISO 3219 (A)
Density	0.85 - 0.89 g/cm <sup>3</sup> (20 °C) DIN 51757

### Features

Maximizes the performance of 8% manganese neodecanoate drier and enables:

- Faster drying times
- Fast drying in adverse ambient conditions down to 40 °F (4.4 °C)
- Less yellowing and brighter whites when compared to cobalt driers
- Wrinkle-free appearance when utilized with thick film application

### Applications

#### Coatings

- Wood
- Industrial
- Protective and Marine
- Architectural
- Automotive

### Dosage

All resin systems are unique and will require dosage optimization for the best cost and dry performance. We recommend using a ladder study with Borchi® Phoenix. The typical usage level is 0.01 - 0.05 % manganese metal, based on binder solids. Borchi®Phoenix should be used at a ratio of 10:1 by weight of Borchi® Phoenix to 8% manganese neodecanoate drier (e.g., Borchers® Deca Manganese 8 or 8% Manganese Ten-Cem®). Borchi® Phoenix should be added before the manganese drier as one of the last components before the anti-skinning agent.

Table 1 Formulation example

Material	Material Type	wt%
Long oil alkyd (85% solids)	Resin	12.19
Octa-Soligen® Calcium 10 basic	Drier	0.87
Borchi® Gen 1252	Dispersant	0.94
Titanium dioxide	Pigment	31.07
D60	Solvent	9.16
Long oil alkyd	Resin	38.95
D60	Solvent	6.41
Borchi® Phoenix	Accelerator	0.40
Borchers® Deca Manganese 8	Drier	0.04

### Storage

Protect from the effects of weather and store at temperatures between 5 and 30 °C. Color of product varies on storage.

### Safety

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

[www.borchers.com/contact](http://www.borchers.com/contact)

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

Making, using, and selling the Borchi®Phoenix product for formulation in alkyd coatings is patent protected.

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