

Borchi® Phoenix

High-performance accelerator to enhance the drying performance of Borchers® Deca Manganese 8 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/cm3 (20 °C) DIN 51757

Features

Maximizes the performance of Borchers® Deca Manganese 8 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 Borchers® Deca Manganese 8. Borchi® Phoenix should be added before Borchers® Deca Manganese 8 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

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 (all additional/different terms are rejected) unless explicitly agreed otherwise in signed writing.

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

Edition: 05/2024

Milliken