

Borchi® D-1152

Borchi® D-1152 is a wetting and dispersing additive with anti-settling properties for use with ambient cured unsaturated polyester and vinyl ester resins

Physical Characteristics

Appearance	Liquid, brown
Non-volatile content	50 - 54 %
pH	9 - 11 (aqueous emulsion 10 %)
Density	0.845 - 0.885 g/cm ³ , 20 °C
Viscosity	NA
Solvent(s)	Naphtha (Petroleum), Hydrotreated, Heavy

Features

- Improved wetting and viscosity reduction for a wide range of commonly used fillers
- Shorter paste mixing time and higher filler loading
- Reduced settling during storage and application
- Specifically formulated for use with ambient cured unsaturated polyester and vinyl ester resins, minimizing impact on pot life and gel time drift of the promoted resin

Applications

In the application example below, a commercial DCPD resin used for filled tub and shower applications was dosed with and without Borchi® D-1152 (1.0 % based on filler) and then mixed with 175 phr (parts per hundred resin) alumina trihydrate and calcium carbonate. The results of the resin pastes formulated with Borchi® D-1152 show a significant decrease in viscosity compared to the resin pastes with no wetting and dispersing additive.

Test Resin System:

- Commercial DCPD resin + 175 phr ATH (no wetting and dispersing additive)
 - Viscosity mPa.s: 103,790
- Commercial Formulated Gelcoat + 175 phr ATH + 1% Borchi® D-1152 (BOF)
 - Viscosity mPa.s: 21,400
- Commercial DCPD resin + 175 phr CaCO₃ (no wetting and dispersing additive)
 - Viscosity mPa.s: 72,150
- Commercial DCPD resin + 175 phr CaCO₃ + 1% Borchi® D-1152 (BOF)
 - Viscosity mPa.s: 15,54

Dosage

0.5 - 1.5 % additive (as supplied) based on weight of filler for improved wetting and viscosity reduction. For optimum performance mix wetting and dispersing additive into resin before addition of fillers or pigment.

Storage

Please refer to Borchi® D-1152 product label for storage and handling instructions. Store and use material in cool, dry, well ventilated area away from heat, direct sunlight, hot metal surfaces and all sources of ignition. Container must be kept tightly closed immediately after use. Recommended shelf-life is two years from date of manufacture. Separation or turbidity may occur during storage and transportation. Mix well before use. If necessary, warm to 30-60 °C (86-140 °F) and mix well.

Safety

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

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