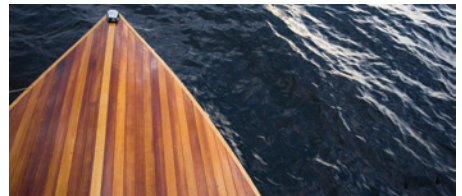


borchers[™]
A MILLIKEN BRAND

Additives, Driers, Accelerators & Catalysts

For Coatings, Paints, Composites,
Printing Inks & Adhesives



Milliken[™]

HIGH-PERFORMANCE CATALYSTS

Borchi® OXY-Coat, Borchi® Dragon, Borchi® Phoenix, and Borchi® RapidDry are lines of cobalt-free curing additives for all types of oxidatively drying resin systems. Benefits include improved drying and non-yellowing performance compared to conventional driers. Borchi® high-performance catalysts and accelerators extend the coatings season window by providing consistent curing performance in all weather conditions (hot or cold, dry or humid) for short, medium and long oil alkyd systems. Borchi® OXY-Coat, Borchi® Dragon, Borchi® Phoenix, and Borchi® RapidDry products meet stringent regulatory requirements as cobalt-free solutions.

Borchers Additive	System*	Chemistry	Description
Borchi® OXY-Coat	W/S	Organo metallic complex	<ul style="list-style-type: none"> Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers in water- and solvent-based systems Based on a unique, highly active complex Supplied in 1,2 propylene glycol
Borchi® OXY-Coat 1101	W	Organo metallic complex	<ul style="list-style-type: none"> VOC-free; improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers Based on a unique, highly active complex Supplied in water
Borchi® OXY-Coat 1310	S	Organo metallic complex	<ul style="list-style-type: none"> Recommended for thixotropic solvent-based systems Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers Supplied in glycol mixture
Borchi® OXY-Coat 1410	W/S	Organo metallic complex	<ul style="list-style-type: none"> Suitable for high solids and composites; high concentration, low VOC version Based on a unique, highly active complex Supplied in 1.2 -propylene glycol
Borchi® OXY-Coat 1510	W	Organo metallic complex	<ul style="list-style-type: none"> VOC-free; improves drying activity, color performance, gloss and haze compared to cobalt-based driers Based on a unique, highly active complex Very suitable for waterborne coatings Can be used in coatings for adverse weather conditions
Borchi® Dragon	W/S	Organo metallic complex	<ul style="list-style-type: none"> Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers Provides wrinkle-free drying and excellent film hardness in high solids systems
Borchi® Phoenix	W/S	Accelerator molecule	<ul style="list-style-type: none"> Improves drying activity, color performance, gloss and haze compared to cobalt-based driers Provides wrinkle-free drying and excellent film hardness in high solids systems For every 10g of Borchi® Phoenix, add 1g of Borchers® Deca Manganese 8
Borchi® RapidDry	S	Organo metallic complex	<ul style="list-style-type: none"> Designed to be used with current drier systems (cobalt, zirconium, calcium) Significantly improves dry time at an economical cost

ANTI-SKINNING AGENTS

Borchi® Guard (oxime-free), Ascinin® (oxime-free / amino compound), Borchi® Nox (cyclohexanone oxime, methyl ethyl ketoxime), and Borchi® Shield (amino / oxime compound) products offer formulators a choice in anti-skinning additives. Benefits include flexibility in meeting regulatory requirements for in-can skin formation in alkyd coatings.

Borchers Additive	System*	Chemistry	Description
Borchi® Guard T	S	Proprietary blend of antioxidants	<ul style="list-style-type: none"> Oxime- and amine-free; controls surface-dry retardation and keeps the film open longer, allowing deeper oxygen penetration into lower film layers. This promotes thorough drying and improves flow and leveling properties Efficient at low dosages, achieves excellent dry times across a variety of primary driers, and maintains excellent storage stability with minimal loss of dry Recommended to be used with Borchi® OXY-Coat cobalt replacement additives

ANTI-SKINNING AGENTS (continued)

Borchi® Guard (oxime-free), Ascinin® (oxime-free / amino compound), Borchi® Nox (cyclohexanone oxime, methyl ethyl ketoxime), and Borchi® Shield (amino / oxime compound) products offer formulators a choice in anti-skinning additives. Benefits include flexibility in meeting regulatory requirements for in-can skin formation in alkyd coatings.

Borchers Additive	System*	Chemistry	Description
Ascinin® Anti Skin 0445	W/S	Amino compound dissolved in 1,2-propanediol	<ul style="list-style-type: none"> Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives Controls surface dry retardation and keeps the film open longer to ensure deeper penetration of oxygen to lower film layers which promotes through dry and improves flow properties
Ascinin® Anti Skin 0444	S	Amino compound dissolved in fatty acid ester	<ul style="list-style-type: none"> Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives Controls surface dry retardation and keeps the film open longer to ensure deeper penetration of oxygen to lower film layers which promotes through dry and improves flow properties
Borchi® Nox C3	S	Cyclohexanone oxime	<ul style="list-style-type: none"> Anti-skinning agent especially for printing inks
Ascinin® Anti Skin 1240	S	Amino compound dissolved in fatty acid ester	<ul style="list-style-type: none"> Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives Specially designed for oxidatively drying coatings systems and pastes with reduced VOC content
Borchi® Nox 1640	S	Cyclohexanone oxime	<ul style="list-style-type: none"> MEKO-free Does not cause discoloration or adversely affect the drying time of the paint system
Borchi® Nox M2	S	Methyl ethyl ketoxime	<ul style="list-style-type: none"> Delays the onset of drying of clear lacquers without affecting through drying Prolongs the open time of the film, thereby preventing flow problems and blistering
Borchi® Shield	S	Amino / oxime compound dissolved in fatty acid ester	<ul style="list-style-type: none"> MEKO-free Works to provide slower surface drying in high solids alkyds, allowing for proper oxidative through cure even with thicker films

DRIERS

Metal carboxylates for the oxidative and through drying of coatings and printing inks.

Product Name	Metal	Chemistry	Description/Solvent
Calcium			
Octa-Soligen® Calcium 4, basic	4% Ca	Octoate	White spirit
Octa-Soligen® Calcium 5, basic	5% Ca	Octoate	White spirit
Octa-Soligen® Calcium 10, basic	10% Ca	Octoate	White spirit
Octa-Soligen® Calcium 10 ECON	10% Ca	2EH Acid free blend	White Spirit D60
Octa-Soligen® Calcium 5, neutral	5% Ca	Octoate	White spirit
Octa-Soligen® Calcium 7 HS, neutral	7% Ca	Octoate	Fatty acid ester, free of VOC
Cobalt			
Borchers® Deca Cobalt 6	6% Co	Neodecanoate	White Spirit D60
Borchers® Deca Cobalt 7 aqua	7% Co	Neodecanoate	Water dispersible oil
Borchers® Deca Cobalt 10	10% Co	Neodecanoate	White spirit

DRIERS (continued)

Metal carboxylates for the oxidative and through drying of coatings and printing inks.

Product Name	Metal	Chemistry	Description/Solvent
Cobalt			
Borchers® Deca Cobalt 10 (xylene)	10% Co	Neodecanoate	Cobalt catalyst; accelerator for polyester systems; dissolved in xylene
Borchers® Deca Cobalt 12	12% Co	Neodecanoate	White spirit
Borchers® Deca Cobalt 12 (oil)	12% Co	Neodecanoate	Oil
21% Cobalt Hydroxy Ten-Cem®	21% Co	Neodecanoate	Drying stabilizer for oxidative drying paint systems; dispersion of cobalt dihydroxide in organic cobalt salts dissolves in white spirit
Octa-Soligen® Cobalt 6	6% Co	Octoate	White spirit
Octa-Soligen® Cobalt 6 (xylene)	6% Co	Octoate	Cobalt catalyst; accelerator for polyester systems; dissolved in xylene
Octa-Soligen® Cobalt 6 HS	6% Co	Octoate	Fatty acid ester, free of VOC
Octa-Soligen® Cobalt 8 (oil)	8% Co	Octoate	Oil
Octa-Soligen® Cobalt 10	10% Co	Octoate	White spirit
Octa-Soligen® Cobalt 10 (xylene)	10% Co	Octoate	Cobalt catalyst; accelerator for polyester systems; dissolved in xylene
Octa-Soligen® Cobalt 12	12% Co	Octoate	White spirit
Octa-Soligen® Cobalt 12 (oil)	12% Co	Octoate	Oil
Octa-Soligen® Cobalt 12 (xylene)	12% Co	Octoate	Cobalt catalyst; accelerator for polyester systems; dissolved in xylene
Octa-Soligen® Cobalt 12 HS	12% Co	Octoate	Fatty acid ester, free of VOC
Manganese			
Borchers® Deca Manganese 6	6% Mn	Neodecanoate	White Spirit D60
Borchers® Deca Manganese 8	8% Mn	Neodecanoate	White spirit
Borchers® Deca Manganese 8 HS	8% Mn	Neodecanoate	Fatty acid ester, free of VOC
Octa-Soligen® Manganese 6	6% Mn	Octoate	White spirit
Octa-Soligen® Manganese 8 (oil)	8% Mn	Octoate	Oil
Octa-Soligen® Manganese 10	10% Mn	Octoate	White spirit
Octa-Soligen® Manganese 10 (oil)	10% Mn	Octoate	Oil
Octa-Soligen® Manganese 10 HS	10% Mn	Octoate	Fatty acid ester, free of VOC
Zinc			
Borchers® Deca Zinc 8	8% Zn	Neodecanoate	White Spirit D60
Borchers® Deca Zinc 10 aqua	10% Zn	Neodecanoate	Water dispersible oil
Borchers® Deca Zinc 12	12% Zn	Neodecanoate	White Spirit D60
Octa-Soligen® Zinc 8	8% Zn	Octoate	White spirit
Octa-Soligen® Zinc 10	10% Zn	Octoate	White spirit
Octa-Soligen® Zinc 12	12% Zn	Octoate	White spirit
Octa-Soligen® Zinc 23	23% Zn	Octoate	Solvent-free

DRIERS (continued)

Metal carboxylates for the oxidative and through drying of coatings and printing inks.

Product Name	Metal	Chemistry	Description/Solvent
Zirconium			
Borchers® Deca Zirconium 6	6% Zr	Neodecanoate	White Spirit D60
Borchers® Deca Zirconium 8 aqua	8% Zr	Neodecanoate	Water dispersible oil
Borchers® Deca Zirconium 12	12% Zr	Neodecanoate	White Spirit D60
Borchers® Deca Zirconium 15	15% Zr	Neodecanoate	White spirit
Borchers® Deca Zirconium 15 HS	15% Zr	Neodecanoate	Fatty acid ester, free of VOC
Borchers® Deca Zirconium 18	18% Zr	Neodecanoate	White Spirit D60
Octa-Soligen® Zirconium 6	6% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 10	10% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 10 aqua	10% Zr	Octoate	Water dispersible oil
Octa-Soligen® Zirconium 12	12% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 18	18% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 24	24% Zr	Octoate	White spirit
Other Metals			
Borchers® Deca Lithium 2	2% Li	Neodecanoate	White spirit
Borchers® Deca Copper 8	8% Cu	Neodecanoate	Copper neodecanoate dissolved in white spirit; provides longer processing time and lowers the exothermic peak of unsaturated polyester formulations
Borchers® Deca Potassium 12	12% K	Neodecanoate	Primary catalyst for rigid urethane foams, accelerator additive for unsaturated polyesters and pot life stabilizer for two-component PUR systems
Borchers® Deca Barium 12.5	12,5% Ba	Neodecanoate	White spirit
Octa-Soligen® Iron 7/8	7/8% Fe	Octoate	White spirit
Octa-Soligen® Barium 12.5	12,5% Ba	Octoate	White spirit
7% AOC E	7% Al	Organic Complex	White spirit and glycol ether
Blends			
Borchers® Deca 27	Ca, Co, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 155	Ca, Co, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 161	Ca, Co, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 69	Co, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 141 Z	Ca, Co, Zn, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 173	Ba, Co, Zr	Neodecanoate	White Spirit D60
Borchers® Deca 123 aqua	Ba, Co, Zn	Neodecanoate	White Spirit D60
Borchers® Deca 203	Ba, Co, Zn	Neodecanoate	White Spirit D60

DRIERS (continued)

Metal carboxylates for the oxidative and through drying of coatings and printing inks.

Product Name	Metal	Chemistry	Description/Solvent
Blends			
Octa-Soligen® 27	Co, Ca, Zr	Octoate	White spirit
Octa-Soligen® 155	Co, Ca, Zr	Octoate	White spirit
Octa-Soligen® 69	Co, Zr	Octoate	White spirit
Octa-Soligen® 141 Z	Co, Ca, Zr, Zn	Octoate	White spirit
Octa-Soligen® 144 aqua	Co, Zn, Zr	Octoate	Water dispersible oil
Octa-Soligen® 146	Co, Ca, Li	Octoate	White spirit
Octa-Soligen® 123 aqua	Co, Ba, Zn	Octoate	Water dispersible white spirit
Octa-Soligen® 203	Co, Ba, Zn	Octoate	White spirit
Octa-Soligen® 173	Co, Ba, Zr	Octoate	White spirit

CATALYSTS

Metal carboxylates for urethanes.

Product Name	Metal	Description
Bismuth		
Borchi® Kat 315 EU	16% Bi	<ul style="list-style-type: none"> Tin- and solvent-free catalyst based on bismuth neodecanoate; specially designed for one- and two-component polyurethane systems and RTV silicones Accelerates the chemical reaction between the polyol and isocyanate component of polyurethane foam systems
Borchi® Kat 21	21% Bi	<ul style="list-style-type: none"> Highly reactive tin- and solvent-free catalyst based on bismuth neodecanoate for solventborne one- and two-component polyurethane clearcoats and pigmented coating systems
Borchi® Kat 24	24% Bi	<ul style="list-style-type: none"> Tin- and solvent-free catalyst based on bismuth 2-ethylhexanoate; specially designed for one- and two-component polyurethane systems Accelerates the chemical reaction between the alcohol and isocyanate component of polyurethane coatings systems, thus allowing optimum control of the drying properties
Cobalt		
Octa-Soligen® Cobalt 6 (xylene)	6% Co	<ul style="list-style-type: none"> Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene
Octa-Soligen® Cobalt 10 (xylene)	10% Co	<ul style="list-style-type: none"> Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene
Borchers® Deca Cobalt 10 (xylene)	10% Co	<ul style="list-style-type: none"> Cobalt neodecanoate catalyst; accelerator for polyester systems; dissolved in xylene
Octa-Soligen® Cobalt 12 (xylene)	12% Co	<ul style="list-style-type: none"> Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene
12% Cobalt Catalyst 510	12% Co	<ul style="list-style-type: none"> Cobalt accelerator developed for the special needs of the unsaturated polyester resin industry; used in conjunction with organic peroxide catalysts; dissolved in white spirit
Copper		
Borchers® Deca Copper 8	8% Cu	<ul style="list-style-type: none"> Copper neodecanoate dissolved in white spirit; provides longer processing time and lowers the exothermic peak of unsaturated polyester formulations

CATALYSTS (continued)

Metal carboxylates for urethanes.

Product Name	Metal	Description
Potassium		
Borchers® Deca Potassium 12	12% K	<ul style="list-style-type: none"> • Primary neodecanoate catalyst for rigid urethane foams, accelerator additive for unsaturated polyesters and pot life stabilizer for two-component PUR systems • Diluted in diethylene glycol
15% Potassium Hex-Cem® EU	15% K	<ul style="list-style-type: none"> • Specially designed for unsaturated polyesters and pot life stabilizers for two-component polyurethane systems • Potassium 2-ethylhexanoate dissolved in diethylene diglycol which combined with cobalt supports the accelerating effect and discoloration of unsaturated polyesters dissolved in styrene, ultimately requiring less cobalt in the system
Tin		
Borchers® LH 10	1,8% Sn	<ul style="list-style-type: none"> • Specially designed for water-based two-component polyurethane coatings • Accelerates the cross-linking process and improves the drying of chemically curing systems
Borchi® Kat 28	28% Sn	<ul style="list-style-type: none"> • Tin catalyst based on synthetic monocarboxylic acids; catalyst for one- and two-component reactions; for coatings and polyurethane foams; for the synthesis of (unsaturated) polyesters, for silicones and urethane alkyls
Zinc		
Borchi® Kat 15	15% Zn	<ul style="list-style-type: none"> • Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems • Diluted in dearomatized white spirit
Borchi® Kat 0761	15% Zn	<ul style="list-style-type: none"> • Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems • Diluted in fatty ester
Borchi® Kat 19	19% Zn	<ul style="list-style-type: none"> • Tin- and solvent-free catalyst based on zinc neodecanoate for solvent-based one- and two-component polyurethane clearcoats and pigmented coating systems
Borchi® Kat 22	22% Zn	<ul style="list-style-type: none"> • Tin-, VOC- and solvent-free catalyst based on zinc 2-ethylhexanoate with moderate reactivity for solvent-based and solvent-free one- and two-component polyurethane coatings and chemical synthesis
Blends		
Borchi® Kat 2115	Bi, Zn	<ul style="list-style-type: none"> • Catalyst based on combination of metal neodecanoates for one- and two-component polyurethane systems and RTV silicones • Improved pot life and hardness, fast blocking stability, earlier solvent resistance and sanding capability, and good balance between drying times and overall performance
Borchi® Kat 0243	Bi, Li	<ul style="list-style-type: none"> • Tin-free catalyst based on a combination of metal neodecanoates for polyurethane reactions diluted in dearomatized white spirit • Especially for solvent-based one- and two-component polyurethane clear coats and two-component polyurethane adhesives as well as for the modification of silicones
Borchi® Kat 0244	Bi, Zn	<ul style="list-style-type: none"> • Tin-, VOC- and solvent-free catalyst based on a combination of metal carboxylates for polyurethane reactions • Especially for solvent-based and solvent-free one- and two-component polyurethane clear coats and two-component polyurethane adhesives
Borchi® Kat 0245	Zn, Ca	<ul style="list-style-type: none"> • Tin-free metal carboxylate-based catalyst with moderate activity esp. for solvent-based pigmented one- and two-component polyurethane coatings • Dissolved in xylene

WETTING & DISPERSING ADDITIVES

Borchi® Gen dispersants are high-performance additives designed to disperse organic and inorganic pigments. Benefits include better pigment wetting resulting in lower grind times, improved color strength and improved transparency.

Borchers Additive	System*	Chemistry	% Active	Description
Borchi® Gen 0311	S	Polyurethane	45% in BA/ Xylene/ MPA	<ul style="list-style-type: none"> Streamlines dispersions by enabling co-grinding in industrial coating applications Designed to be compatible with various pigment types
Borchi® Gen 0851	W	Polyurethane	50% in water	<ul style="list-style-type: none"> VOC- and APEO-free; specially designed for dispersing difficult organic pigments and carbon black in water-based systems Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability
Borchi® Gen 1750	W	Polyurethane	40% in water	<ul style="list-style-type: none"> VOC-free, multi-functional dispersant for various pigments and binders; minimized impact on corrosion protection; improved transparency with transparent iron oxide pigments Small particle size dispersions produce high transparency, and low viscosity grinds allow up to 40 % pigment loading with transparent oxide pigments and over 60 % with opaque iron oxides
Borchi® Gen SN 95	W	Polyurethane	25% in water	<ul style="list-style-type: none"> Specially designed for dispersing difficult organic pigments and carbon black in water-based systems Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability
Borchi® Gen WNS	W	Low molecular weight polyether modified compounds	90% in water	<ul style="list-style-type: none"> VOC- and APEO-free; recommended for water- or glycol-based universal tinting pastes Provides strong color development with organic pigments and improved storage stability
Borchi® Gen SPE	W/S	Low molecular weight polyether modified compounds	100%	<ul style="list-style-type: none"> VOC-free (according to the ASTM D2369 test method) and APEO-free; for use in a wide range of organic and carbon black pigments and base chemistries Improves particle size, viscosity, gloss, and color
Borchi® Gen 12	W/S	Low molecular weight polyether modified compounds	100%	<ul style="list-style-type: none"> VOC- and APEO-free; recommended for systems based on CAB and nitrocellulose Improves pigment wetting and dispersion time and has OH functionality that can be covalently bonded in cross-linked or two-component water- and solvent-based coatings systems
Borchi® Gen ND	W/S	Phosphate/ amine compound	100%	<ul style="list-style-type: none"> Provides high gloss and strong color development, as well as good pigment wetting properties Acts as an anti-gelling agent when basic pigments and acidic binders are used
Borchi® Gen AP	W/S	Phosphoric acid ester polycondensate	100%	<ul style="list-style-type: none"> Improves pigment wetting of inorganic pigments and fillers Provides good corrosion resistance and adhesion
Borchi® Gen 1757	W/S	Copolymer with pigment affinic groups	100%	<ul style="list-style-type: none"> VOC-free; hybrid wetting and dispersing additive providing a combination of various principles of pigment stabilization Produces vibrant color and superior opacity with a wide range of bismuth vanadate pigments
Borchi® Gen 0650	W/S	Amine neutralized phosphoric acid ester	100%	<ul style="list-style-type: none"> VOC- and APEO-free; specially designed for stabilizing fillers and pigments with polar surfaces like titanium dioxide, iron oxides and hydrophilic organic pigments in water- and solvent-based systems Provides low viscosity dispersions; can extend pot life in 2K polyurethane coatings

WETTING & DISPERSING ADDITIVES (continued)

Borchi® Gen dispersants are high-performance additives designed to disperse organic and inorganic pigments. Benefits include better pigment wetting resulting in lower grind times, improved color strength and improved transparency.

Borchers Additive	System*	Chemistry	% Active	Description
Borchi® Gen 0451	W/S	Polyurethane	100%	<ul style="list-style-type: none"> VOC- and APEO-free; specially designed for dispersing difficult to disperse organic pigments and carbon black in water- and solvent-based systems Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability
Borchi® Gen 1252	W/S	Acrylic ester copolymer	100%	<ul style="list-style-type: none"> VOC- and APEO-free; non-ionic Especially suitable for wood coatings, decorative coatings, industrial coatings and pigment concentrates with organic and inorganic pigments
Borchi® Gen 0755	S	Polyurethane	100%	<ul style="list-style-type: none"> VOC- and APEO-free; recommended for dispersing difficult organic pigments and carbon black in solvent-based systems; good compatibility with hydrocarbon, alkyd, and nitrocellulose resins Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability
Borchi® Gen 911	S	Modified polyester	70% in white spirits	<ul style="list-style-type: none"> Recommended for alkyd solvent-based coatings, as well as nitrocellulose-based systems; excellent with inorganic pigments in non-polar paints Provides improved pigment wetting, shorter dispersion time of organic and inorganic pigments and good storage stability of the finished paint
Borchi® Gen 1051	S	Polyurethane	45% in BAC/MPA	<ul style="list-style-type: none"> Specially designed for dispersing organic blue, green and red pigments in solvent-based systems Provides low viscosity dispersions, high transparency and long-term dispersion stability
Borchi® Gen 1251	S	Polyurethane	85% in MPA	<ul style="list-style-type: none"> Provides excellent pigment wetting, color development and high gloss, as well as low viscosity dispersions and long-term dispersion stability Recommended for organic pigments and carbon black in solvent-based systems

COLOR BOOST

Borchi® Boost additives improve color acceptance for ready made dispersions and tinting systems. Benefits include stronger tints with the convenience of a post add solution in a wide range of base paints. VOC- and APEO-free.

Borchers Additive	System*	% Active	Description
Borchi® Boost 510W	W	50% in water	<ul style="list-style-type: none"> Improves color acceptance in medium to low polarity systems Provides stronger tints with organic pigment dispersions and carbon blacks
Borchi® Boost 570WS	W/S	100%	<ul style="list-style-type: none"> Improves color acceptance in medium to low polarity systems Provides stronger tints with organic pigment dispersions and carbon blacks
Borchi® Boost 540WS	W/S	100%	<ul style="list-style-type: none"> Improves color acceptance in medium to high polarity systems Provides stronger tints with organic pigment dispersions and carbon blacks

COMPATIBILIZERS

Borchi® Add products enhance the compatibility of colorants into many base chemistries, including universal waterborne colorants into solvent borne alkyd bases and resin-containing colorants into different base chemistries. Benefits include improved color acceptance and reduced pigment flooding and floating as a post add solution. VOC- and APEO-free.

Borchers Additive	System*	% Active	Description
Borchi® Add 406WS	W/S	90% in water	<ul style="list-style-type: none"> Reduces or eliminates rub-out of universal water-based concentrates in solvent-based alkyd bases Improves compatibility
Borchi® Add 409WS	W/S	100%	<ul style="list-style-type: none"> Reduces or eliminates rub-out of universal water-based concentrates in solvent-based alkyd bases Improves compatibility

RHEOLOGY MODIFIERS

Borchi® Gel additives are associative and non-associative rheology modifiers for water-based coatings that have a significant influence on the storage stability and application properties of the coatings system. Benefits include a full range of low to high shear polyurethane, acrylic and zirconium complex thickeners to ensure optimal flow and leveling combined with anti-sag performance.

Borchers Additive	System*	Functionality	% Active	Description
Polyurethane (PU) Based Associative Thickeners				
Borchi® Gel 0620	W	Low shear/ very strongly pseudoplastic	40% in water/ butyl glycol (40% PU)	<ul style="list-style-type: none"> Tin- and APEO-free; develops viscosity stability and improves rheological properties mainly in the lower shear range for water-based systems Enables the application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film
Borchi® Gel 0620 DFP	W	Low shear/ very strongly pseudoplastic	20% in water/ 2-Butoxyethanol	<ul style="list-style-type: none"> Tin- and APEO-free; easy incorporation into coating Enables application of thick surfaces on vertical layers and effectively prevents sagging
Borchi® Gel 0621	W	Low shear/ very strongly pseudoplastic	30% in water (20% PU)	<ul style="list-style-type: none"> Tin-, VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the low shear range for water-based systems Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film
Borchi® Gel PW 25	W	Low shear/ strongly pseudoplastic	25% in water/ 1,2 Propanediol (25% PU)	<ul style="list-style-type: none"> Emulsifier-free; exceptionally good thickening properties in most fine particle dispersion binders with low emulsifier content in water-based systems Promotes longer open times than normal due to its high capacity for water retention
Borchi® Gel LW 44	W	Low shear/ strongly pseudoplastic	46% in water (24% PU)	<ul style="list-style-type: none"> VOC- and APEO-free; develops viscosity stability mainly in the low shear range for water-based coatings systems Will not cause yellowing or chalking in cured film
Borchi® Gel 0625	W	Medium shear/ pseudoplastic	34% in water (25% PU)	<ul style="list-style-type: none"> VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the medium and high shear range for water-based systems Improves storage stability, leveling and application properties Low water sensitivity
Borchi® Gel 0630	W	Low shear/ very strongly pseudoplastic	25% in (2-methoxy- methylethoxy) propanol + 1.2 Propanediol	<ul style="list-style-type: none"> Tin-, APEO- and butyl glycol-free; easy incorporation into coating Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film

RHEOLOGY MODIFIERS (continued)

Borchi® Gel additives are associative and non-associative rheology modifiers for water-based coatings that have a significant influence on the storage stability and application properties of the coatings system. Benefits include a full range of low to high shear polyurethane, acrylic and zirconium complex thickeners to ensure optimal flow and leveling combined with anti-sag performance.

Borchers Additive	System*	Functionality	% Active	Description
Polyurethane (PU) Based Associative Thickeners				
Borchi® Gel L 75 N	W	Medium shear/ pseudoplastic	50% in water (25% PU)	<ul style="list-style-type: none"> VOC- and APEO-free; develops viscosity stability in water-based coatings mainly in the medium shear range; good pigment wetting properties Improves properties for easier brush and roller application and does not yellow or cause chalking in the cured film
Borchi® Gel L 76	W	Medium shear/ pseudoplastic	50% in water (25% PU)	<ul style="list-style-type: none"> Improves rheological properties of aqueous coatings systems, allowing for easier application of paint with brush or roller, especially for emulsion paints
Borchi® Gel 0626	W	Medium shear/ pseudoplastic	37% in water (25% PU)	<ul style="list-style-type: none"> Develops viscosity stability and improves rheological properties mainly in the medium and high shear range for water-based systems Improves storage stability, leveling and application properties
Borchi® Gel 0434	W	High shear/ newtonian	20% in water (20% PU)	<ul style="list-style-type: none"> VOC- and APEO-free; recommended for latex dispersions and water-based coatings systems in the high shear range Improves brush drag (ICI viscosity), reduces spattering during roller application, and imparts superior flow and leveling
Borchi® Gel 0435	W	High shear/ newtonian	50% in water (30% PU)	<ul style="list-style-type: none"> APEO-free; develops outstanding brush and roll application properties and high shear thixotropy for water-based systems Produces viscosity stability mainly in the higher shear range
Other Rheology Modifiers				
Borchi® Gel A LA	W	Low shear/ strongly pseudoplastic	10% anionic acrylate polymer in water	<ul style="list-style-type: none"> APEO-free; improves flow and leveling properties of water-based coatings systems mainly in high gloss emulsions Builds viscosity in the low shear range and swells water in the coating rather than associating it with binders
Borchi® Gel PN	W	Low shear/ strongly pseudoplastic	Zirconium complex neutralized with ammonia	<ul style="list-style-type: none"> Additive for use in water-based coatings systems whose binders contain free hydroxyl and carboxyl groups Develops viscosity in the low shear range; prevents sagging and settling; improves viscosity stability of a coating after tinting with universal colorants; no need for biocides
Borchi® Gel NA	W	Low shear/ strongly pseudoplastic	Zirconium complex neutralized with sodium hydroxide	<ul style="list-style-type: none"> VOC-, emulsifier- and APEO-free; thixotropic and shear thinning in behavior; additive for use in water-based coatings systems whose binders contain free hydroxyl and carboxyl groups Improves viscosity stability of a coating after tinting with universal colorants; does not contain any odor
Borchi® Gel Thixo 2	S	Low shear/ strongly pseudoplastic	N/A	<ul style="list-style-type: none"> Enhances thixotropic character of paints with solvents of non-polar or weakly polar nature Reduces settling and floating of pigments and promotes pigment dispersion during manufacturing

FLOW & LEVELING ADDITIVES

Borchi® Gol high-performance flow and leveling additives are modified polydimethylsiloxane (PDMS) and acrylic additives which reduce the surface tension of the coating to improve flow, substrate wetting and slip. Benefits include elimination of surface defects such as fish eyes and cratering. Many surface defects are related to surface tension, and by correcting the surface tension of a system, most surface defects can be resolved.

Borchers Additive	System*	Chemistry	% Active	Description
Borchi® Gol 1570	W/S	Polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> Improves substrate wetting on challenging surfaces or dirty substrates, and enhances slip properties when used in combination with Borchi® Gol LA 2 or Borchi® Gol LA 232 Inhibits the formation of surface defects like craters and pinholes; VOC-free
Borchi® Gol 3467	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> VOC-free; suitable for clear and pigmented systems, hydrophobic surfaces and water- and solvent-based formulations in wood substrates Provides improvements in substrate wetting and wetting of difficult to wet and dirt contaminated substrates
Borchi® Gol 1473	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> VOC-free; recommended for top coats that are cured at room temperature and below 150 °C in solvent- and water-based systems, as well as solvent-free systems Provides improvements in surface smoothness by reducing orange peel and preventing the formation of craters
Borchi® Gol 1474	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> VOC-free; provides improvements in flow, leveling and slip properties as well as mar resistance Inhibits the formation of surface defects like craters and pin holes
Borchi® Gol LA 2 LC	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> VOC-free; provides lowered surface tension as well as mar, scratch and block resistance Inhibits the formation of surface defects and improves final film appearance
Borchi® Gol LA 6	S	Polyether modified polysiloxane (PDMS)	12% in xylene	<ul style="list-style-type: none"> Provides enhanced substrate wetting, lowered surface tension and block and slip resistance Inhibits the formation of surface defects
Borchi® Gol M 51	S	Polydimethylsiloxane	100%	<ul style="list-style-type: none"> VOC-free; provides reductions in surface tension and enhanced flow Counteracts surface defects caused by silicone-based additives
Borchi® Gol OL 17 LC	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> VOC-free; universal flow promoter with very good compatibility Improves slip and prevents cratering
Borchi® Gol 1375	W/S	Silicone-free mixture of ethoxylated alcohols and surfactants	N/A	<ul style="list-style-type: none"> VOC- and APEO-free; recommended for challenging surfaces and dirty substrates in water- and solvent-based systems Provides reductions in surface tension, improvements in the wetting process and low-foaming tendencies in formulations Can enhance block resistance

FLOW & LEVELING ADDITIVES (continued)

Borchi® Gol high-performance flow and leveling additives are modified polydimethylsiloxane (PDMS) and acrylic additives which reduce the surface tension of the coating to improve flow, substrate wetting and slip. Benefits include elimination of surface defects such as fish eyes and cratering. Many surface defects are related to surface tension, and by correcting the surface tension of a system, most surface defects can be resolved.

Borchers Additive	System*	Chemistry	% Active	Description
Borchi® Gol LA 50	W/S	Polyether modified polysiloxane (PDMS)	50% in dipropylene glycol monobutyl ether	<ul style="list-style-type: none"> • Lowers surface tension and inhibits the formation of surface defects in non-polar surfaces • Can be used in conjunction with Borchi® Gol LA 2 for better slip • Can improve wet and dry adhesion at 2% dosage in polyaspartic coatings
Borchi® Gol LA 200	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> • VOC-free; provides improvements in substrate wetting and block and scratch resistance • Quickly removes air bubbles from applied coated surfaces and avoids micro foam formation at all production stages
Borchi® Gol LA 232	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> • VOC-free; provides reductions in surface tension, increases in surface slip and improvements in block and scratch resistance • Quickly removes air bubbles from applied films to provide smooth surfaces
Borchi® Gol OL 44	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> • VOC-free; broad compatibility; eliminates craters and uneven film applications • Increases and improves slip properties with no recoatability issues
Borchi® Gol 8701	S	Silicone-free	50% in methoxypropyl acetate	<ul style="list-style-type: none"> • Specially designed for solvent-based coatings systems • Provides improvement in substrate wetting and flow, as well as excellent slip without inter-coat adhesion interference
Borchi® Gol LAC 80	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> • VOC-free; provides excellent flow and a clear increase in the surface smoothness of paint films; good block resistance • Prevents crater formation and largely prevents bleeding in hammer finishes
Borchi® Gol PL	S	Solvent-free phenyl modified polysiloxane (PDMS)	100%	<ul style="list-style-type: none"> • VOC-free; eliminates craters and other surface defects characterized by poor flow in can and coil coatings; stable up • Effective flow promoter and compatible with numerous organic binders

DEFOAMERS

Borchers offers high-performance modified polydimethylsiloxane (PDMS) and non-silicone defoamers for water- and solvent-based coating and paint systems. Our products eliminate foaming in the pumping, stirring, and grinding processes during production as well as the formation of foam when brushing, rolling, or spraying upon application.

Borchers Additive	System*	Chemistry	% Active	Description
Borchers® AF 1171	W/S	Modified polysiloxane with hydrophobic particles	>98%	<ul style="list-style-type: none"> Prevents foaming during paint production Particularly suitable for millbase defoaming for aqueous decorative and general industrial coatings
Borchi® Gol 0011	S	Polysiloxane modified preparation of fatty acid esters	100%	<ul style="list-style-type: none"> Reduces pigment floating and provides barrier properties to cured film Suitable for high-build systems Borchi® Gol 0011 can be used in combination with Borchi® Gol E2 (2:1) in epoxy systems for improved flow and deaeration
Borchi® Gol E2	S	Silicone-free hydrocarbon resins	100%	<ul style="list-style-type: none"> Helps eliminate flow defects and craters caused by air entrapment Borchi® Gol 0011 and Borchi® Gol E2 can be used together (2:1) in epoxy systems for improved flow and deaeration
Borchi® Burst DFM 100	W	Mineral hydrocarbons, silica, and surface active materials	99%	<ul style="list-style-type: none"> Excellent defoamer for low to high PVC systems as well as some low gloss paints, paper coatings, and plasters
Borchi® Burst DFM 200	W	Mineral Hydrocarbons and surface active materials	99%	<ul style="list-style-type: none"> Excellent defoamer for low to high PVC paints, automotive spray booth effluent systems, and adhesives and polymer latex systems
Borchi® Burst DF 300	W	Silicone-free polymers	99%	<ul style="list-style-type: none"> Solvent- and silicone-free foam control agent Excellent defoamer for gloss paints, wood coatings, pigment dispersions, and matt and silk paints
Borchi® Burst DFS 500	W/S	Modified silicones SVHC Label free	100%	<ul style="list-style-type: none"> Very successfully eliminates foam in the production of inks and pigment dispersions Excellent defoamer for solvent-based and solvent-free wood coatings and varnishes
Borchi® Burst DFS 600	W	Emulsion of modified silicones	21%	<ul style="list-style-type: none"> Excellent defoamer for water-based gloss paints and wood coatings Can be used in adhesives, inks, and polymer latex systems
Borchi® Burst DFM 700	W	Mineral hydrocarbons, silica, and surface-active materials	60%	<ul style="list-style-type: none"> Solvent-free foam control agent for water-based systems
Borchi® Burst DFM 800	W	Mineral oil defoamer with silicone	N/A	<ul style="list-style-type: none"> Defoamer for water-based coatings, emulsion paints, polymer emulsions and colorants Effective in both the grind and letdown stages
Borchi® Burst DFS 900	W	Emulsion of activated silicone oil with a blend of surfactants	N/A	<ul style="list-style-type: none"> Controls regeneration of foam Economical silicone emulsion defoamer
Borchi® Gol LA 200	W/S	Polyether modified polysiloxane	100%	<ul style="list-style-type: none"> VOC-free; provides improvements in substrate wetting and block and scratch resistance Supports quick air release of entrapped air in the surface during application
Borchers® AF T	W/S	Silicone-free tri-n-butyl phosphate	N/A	<ul style="list-style-type: none"> Destroys foam and prevents foam formation Suitable for pigment pastes and highly filled systems, as well as improving wettability of adhesives
Borchi® Gol 1470	S	Silicone-free solution of foam destroying polymers	37% in aromatic petroleum solvent	<ul style="list-style-type: none"> Helps eliminate flow defects and craters caused by air entrapment Can be used in solvent-free and solvent-based one- and two-component industrial coatings and sealants

MOISTURE SCAVENGERS

Additive OF and Additive TI™ are 100% active moisture scavenger products. Benefits include improved storage stability and dehydrating pigments, fillers and solvents in the production process of 1K and 2K polyurethane systems.

Borchers Additive	System*	Chemistry	% Active	Description
Additive OF	S	Triethyl ortho formate	100%	<ul style="list-style-type: none"> Eliminates moisture in solvent-based one- and two-component polyurethane coatings during shelf life Compatible with most polyol and isocyanate components
Additive TI™	S	P-toluene sulfonyl isocyanate	100%	<ul style="list-style-type: none"> Removes moisture introduced with solvents, pigments and fillers in one- and two-component polyurethane systems in production Low viscosity, monofunctional isocyanate which chemically reacts with water to form an inert amide

SPECIALTIES

The specialties line of additives contains essential products for coatings formulations. These include, among others: adhesion promoters, pot life stabilizers and nano-silica dispersions.

Borchers Additive	System*	Chemistry	% Active	Description
Adhesion Promoters				
Borchi® Gen HMP-F	W/S	Oil-free polyester resin	80% in solvent mixture	<ul style="list-style-type: none"> Recommended for baking finishes in water- and solvent-based systems Improves adhesion to metal in reactive coatings
Anti-Blocking Agents				
Borchi® Coll 10	W	Colloidal dispersion of silica	30% in water	<ul style="list-style-type: none"> Particle size 9 nm Best transparency and effectiveness; maximum matting effect; improves surface hardness at low film builds
Borchi® Coll 20	W	Colloidal dispersion of silica	30% in water	<ul style="list-style-type: none"> Particle size 18 nm Low matting effect; improves surface hardness at low film builds
Anticorrosive				
Bayoxide® Z active	W/S	Zinc Oxide	100%	<ul style="list-style-type: none"> Increases through drying for additives and topcoats and improves corrosion protection behavior and hardness Reduces yellowing

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For more information,
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In this brochure you will find an overview of our
additives for coatings, paints, composites, printing
inks and adhesives.

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