

# Additives, Driers, Accelerators & Catalysts

For Coatings, Paints, Composites, **Printing Inks & Adhesives** 

# **HIGH-PERFORMANCE CATALYSTS**

Borchi® OXY-Coat and Borchi® Dragon 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® OXY-Coat extends 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® Dragon is specially designed to accelerate dry performance in long oil and high solids alkyd systems; benefits include non-wrinkling with high build films and excellent film hardness. These products meet stringent regulatory requirements as cobalt-free solutions.

Borchers Additive	System*	Chemistry	Description
Borchi® OXY-Coat	W/S	Organo metallic complex	<ul> <li>Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers in water- and solvent-based systems</li> <li>Based on a unique, highly active complex</li> <li>Supplied in 1,2 propylene glycol</li> </ul>
Borchi® OXY-Coat 1101	W	Organo metallic complex	<ul> <li>VOC-free; improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers</li> <li>Based on a unique, highly active complex</li> <li>Supplied in water</li> </ul>
Borchi® OXY-Coat 1310	S	Organo metallic complex	<ul> <li>Recommended for thixotropic solvent-based systems</li> <li>Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers</li> <li>Supplied in glycol mixture</li> </ul>
Borchi® OXY-Coat 1410	W/S	Organo metallic complex	<ul> <li>Suitable for high solids and composites; high concentration, low VOC version</li> <li>Based on a unique, highly active complex</li> <li>Supplied in 1.2 -propylene glycol</li> </ul>
Borchi <sup>®</sup> Dragon	S	Organo metallic complex	<ul> <li>Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers</li> <li>Provides wrinkle-free drying and excellent film hardness in high solids systems</li> </ul>

#### **ANTI-SKINNING AGENTS**

Ascinin® (amino compound product), 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 <sup>®</sup> Anti Skin 0445	W/S	Amino compound dissolved in 1,2-propanediol	<ul> <li>Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives</li> <li>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</li> </ul>
Ascinin <sup>®</sup> Anti Skin 0444	S	Amino compound dissolved in fatty acid ester	<ul> <li>Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives</li> <li>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</li> </ul>
Borchi <sup>®</sup> Nox C3	S	Cyclohexanone oxime	Anti-skinning agent especially for printing inks
Ascinin <sup>°</sup> Anti Skin 1240	S	Amino compound dissolved in fatty acid ester	<ul> <li>Phenol-and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives</li> <li>Specially designed for oxidatively drying coatings systems and pastes with reduced VOC content</li> </ul>
Borchi <sup>®</sup> Nox 1640	S	Cyclohexanone oxime	<ul> <li>MEKO-free</li> <li>Does not cause discoloration or adversely affect the drying time of the paint system</li> </ul>



#### **ANTI-SKINNING AGENTS** (continued)

Ascinin® (amino compound product), 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 <sup>®</sup> Nox M2	S	Methyl ethyl ketoxime	<ul> <li>Delays the onset of drying of clear lacquers without affecting through drying</li> <li>Prolongs the open time of the film, thereby preventing flow problems and blistering</li> </ul>
Borchi <sup>®</sup> Shield	S	Amino / oxime compound dissolved in fatty acid ester	<ul> <li>MEKO-free</li> <li>Works to provide slower surface drying in high solids alkyds, allowing for proper oxidative through cure even with thicker films</li> </ul>

# **DRIERS**

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

Product Name	Metal Chemistry/Salt		Description/Solvent
Calcium			
Octa-Soligen® Calcium 4, basic	4% Ca	2EH Acid free blend	White Spirit D60
Octa-Soligen® Calcium 5, basic	5% Ca	2EH Acid free blend	White Spirit D60
Octa-Soligen® Calcium 10, basic	10% Ca	2EH Acid free blend	White Spirit D60
Octa-Soligen® Calcium 5, neutral	5% Ca	Calcium 2-ethylhexanoate	White Spirit D60
Octa-Soligen® Calcium 7 HS, neutral	7% Ca	Calcium 2-ethylhexanoate	Fatty acid ester
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 D60
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 D60
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 D60
Octa-Soligen® Cobalt 6	6% Co	Octoate	White Spirit D60
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 D60
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 D60
Octa-Soligen° Cobalt 12 (oil)	12% Co	Octoate	Oil

#### **DRIERS** (continued)

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

Cobalt Octa-Soligen' Cobalt 12 (xylena) 12% Co Octoble Cobalt catalysts accelerator for polyester systems; dissolved in xylone Octa-Soligen' Cobalt 12 HS 12% Co Octoble Falty acid ester, free of VOC  Manganese  Borchers' Deca Manganese 6 6% Mn Nendecanoste White Spritt D6O  Borchers' Deca Manganese 8 8% Mn Nendecanoste White Spritt D6O Octa-Soligen' Manganese 8 (oil) 8% Mn Nendecanoste Falty acid ester, free of VOC  Octa-Soligen' Manganese 8 (oil) 8% Mn Nendecanoste Falty acid ester, free of VOC  Octa-Soligen' Manganese 8 (oil) 8% Mn Octoble White Spritt D6O  Octa-Soligen' Manganese 8 (oil) 8% Mn Octoble White Spritt D6O  Octa-Soligen' Manganese 8 (oil) 10% Mn Octoble White Spritt D6O  Octa-Soligen' Manganese 10 (oil) 00cta-Soligen' Manganese 1	Product Name	Metal	Chemistry/Salt	Description/Solvent
Octa-Soligen Cobalt 2 HS 12% Co Octoate Fatty acid ester, free of VOC  Manganese  Borchers' Deca Manganese 6 6% Min Neodecanoate White Spirit D60  Borchers' Deca Manganese 8 (oii) 8% Min Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Manganese 8 (oii) 8% Min Neodecanoate White Spirit D60  Octa-Soligen' Manganese 8 (oii) 8% Min Neodecanoate Oii  Octa-Soligen' Manganese 8 (oii) 8% Min Octoate White Spirit D60  Octa-Soligen' Manganese 8 (oii) 10% Min Octoate Oii  Octa-Soligen' Manganese 10 10% Min Octoate Fatty acid ester, free of VOC  Zinc  Borchers' Deca Zinc 8 8% Zin Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 10% Zin Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 10% Zin Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 10% Zin Neodecanoate Water dispersible oii  Borchers' Deca Zinc 11/12 11-12% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zin Octoate White Spirit D60  Octa-Soligen' Zinc 8 10% Zin Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 2 12% Zin Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zin Neodecanoate White Spirit D60  Octa-Soligen' Zinc 2 12% Zin Octoate White Spirit D60  Octa-Soligen' Zinc 2 12% Zinc Neodecanoate White Spirit D60  Borchers' Deca Zirconium 6 0% Zir Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 145 12% Zir Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 145 12% Zir Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 15% Zir Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zir Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zir Neodecanoate White Spirit D60  Cota-Soligen' Zirconium 15 15% Zir	Cobalt			
Manganese   Borchers' Deca Manganese 6   6% Mn   Neodecanoate   White Spirit D60	Octa-Soligen® Cobalt 12 (xylene)	12% Co	Octoate	
Borchers' Deca Manganese 6 6% Mn Neodecanoate White Spirit D60  Borchers' Deca Manganese 8 8% Mn Neodecanoate Oil  Borchers' Deca Manganese 8 (oil) 8% Mn Neodecanoate Oil  Borchers' Deca Manganese 8 (oil) 8% Mn Neodecanoate Fatty acid ester, free of VOC  Octo-Soligen' Manganese 8 (oil) 8% Mn Octoate Oil  Octo-Soligen' Manganese 8 (oil) 8% Mn Octoate Oil  Octo-Soligen' Manganese 10 (oil) 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 11/12 11-12% Zn Neodecanoate White Spirit D60  Octo-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 10 10% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 12 12% Zn Neodecanoate White Spirit D60  Octo-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 12 12% Zn Neodecanoate White Spirit D60  Octo-Soligen' Zinc 12 12% Zn Neodecanoate White Spirit D60  Octo-Soligen' Zinc 23 23% Zn Octoate White Spirit D60  Octo-Soligen' Zinc 24 12% Zn Neodecanoate White Spirit D60  Octo-Soligen' Zinc 25 Zirconium 10 10% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Octo-Soligen' Zirconium 15 15% Zr Neodecanoate White Spirit D60  Octo-Soligen' Zirconium 15 15% Zr Neodecanoate White Spirit D60  Octo-Soligen' Zirconium 15 15% Zr Neodecanoate White Spirit D60	Octa-Soligen® Cobalt 12 HS	12% Co	Octoate	Fatty acid ester, free of VOC
Borchers' Deca Manganese 8 89. Mm Neodecanoate White Spirit D60  Borchers' Deca Manganese 8 (cil) 89. Mm Neodecanoate O.I  Borchers' Deca Manganese 8 (cil) 89. Mm Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Manganese 8 (cil) 89. Mm Octoate O.I  Octa-Soligen' Manganese 8 (cil) 89. Mm Octoate O.I  Octa-Soligen' Manganese 10 (cil) 109. Mm Octoate O.I  Borchers' Deca Zinc 8 89. Zm Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 109. Zm Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 109. Zm Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 109. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 89. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 89. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 89. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 89. Zm Octoate White Spirit D60  Octa-Soligen' Zinc 10 109. Zm Octoate White Spirit D60  Octa-Soligen' Zinc 12 129. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 12 129. Zm Octoate White Spirit D60  Octa-Soligen' Zinc 12 129. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 12 129. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 23 239. Zm Octoate White Spirit D60  Octa-Soligen' Zinc 23 239. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zinc 24 129. Zm Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 129. Zm Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 129. Zm Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 159. Zm Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 159. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zirconium 15 159. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zirconium 15 159. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zirconium 15 159. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zirconium 15 159. Zm Neodecanoate White Spirit D60  Octa-Soligen' Zirconium 15 159. Zm Ne	Manganese			
Borchers' Deca Manganese 8 (cil)   896 Mm   Neodecanoate   Fatty acid ester, free of VOC	Borchers® Deca Manganese 6	6% Mn	Neodecanoate	White Spirit D60
Borchers' Deca Manganese 8 HS 896 Mn Neodecanoate Fatty acid ester, free of VOC Octa-Soligen' Manganese 8 (oil) 896 Mn Octoate White Spirit D60 Octa-Soligen' Manganese 8 (oil) 896 Mn Octoate White Spirit D60 Octa-Soligen' Manganese 10 (oil) 1096 Mn Octoate White Spirit D60 Octa-Soligen' Manganese 10 (oil) 1096 Mn Octoate Oil Octa-Soligen' Manganese 10 HS 1096 Mn Octoate Fatty acid ester, free of VOC  Zinc  Borchers' Deca Zinc 8 896 Zn Neodecanoate White Spirit D60 Borchers' Deca Zinc 10 1096 Zn Neodecanoate Water dispersible oil Borchers' Deca Zinc 10 11-1296 Zn Neodecanoate Water dispersible oil Borchers' Deca Zinc 11/12 11-1296 Zn Neodecanoate White Spirit D60 Octa-Soligen' Zinc 8 896 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 8 896 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 10 1096 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 10 1096 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 12 1296 Zn Neodecanoate White Spirit D60 Octa-Soligen' Zinc 12 1296 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 12 1296 Zn Neodecanoate Water Spirit D60 Octa-Soligen' Zinc 12 1296 Zn Octoate White Spirit D60 Octa-Soligen' Zinc 23 2396 Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 8 aqua 896 Zr Neodecanoate Water dispersible oil Borchers' Deca Zirconium 10 1096 Zr Neodecanoate White Spirit D60 Borchers' Deca Zirconium 12 1296 Zr Neodecanoate White Spirit D60 Borchers' Deca Zirconium 12 1296 Zr Neodecanoate White Spirit D60 Borchers' Deca Zirconium 12 1296 Zr Neodecanoate White Spirit D60 Borchers' Deca Zirconium 15 1596 Zr Neodecanoate White Spirit D60 Borchers' Deca Zirconium 15 1596 Zr Neodecanoate White Spirit D60 Octa-Soligen' Zirconium 15 1596 Zr Neodecanoate White Spirit D60 Octa-Soligen' Zirconium 15 1596 Zr Neodecanoate White Spirit D60 Octa-Soligen' Zirconium 15 1596 Zr Neodecanoate White Spirit D60	Borchers® Deca Manganese 8	8% Mn	Neodecanoate	White Spirit D60
Octa-Soligen' Manganese 6         6% Mm         Octoate         White Spirit D60           Octa-Soligen' Manganese 8 (oii)         8% Mm         Octoate         Oil           Octa-Soligen' Manganese 10         10% Mm         Octoate         White Spirit D60           Octa-Soligen' Manganese 10 (oii)         10% Mm         Octoate         Fatty acid ester, free of VOC           Zinc         Borchers' Deca Zinc 8         8% Zn         Neodecanoate         White Spirit D60           Borchers' Deca Zinc 10         10% Zn         Neodecanoate         White Spirit D60           Borchers' Deca Zinc 10 aqua         10% Zn         Neodecanoate         Water dispersible oil           Borchers' Deca Zinc 11/12         11-2% Zn         Neodecanoate         Paraffinic Mineral Oil           Borchers' Deca Zinc 12         12% Zn         Neodecanoate         White Spirit D60           Octa-Soligen' Zinc 8         8% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 10         10% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 23         23% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 23         23% Zn         Neodecanoate         White Spirit D60           Borchers' Deca Zirconium 6         6% Zr         Neodecano	Borchers® Deca Manganese 8 (oil)	8% Mn	Neodecanoate	Oil
Octa-Soligen' Manganese 8 (oil)         B% Mn         Octoate         Oil           Octa-Soligen' Manganese 10         10% Mn         Octoate         White Spirit D60           Octa-Soligen' Manganese 10 (oil)         10% Mn         Octoate         Oil           Octa-Soligen' Manganese 10 (oil)         10% Mn         Octoate         Fatty acid ester, free of VOC           Zinc           Borchers' Deca Zinc 8         8% Zn         Neodecanoate         White Spirit D60           Borchers' Deca Zinc 10         10% Zn         Neodecanoate         White Spirit D60           Borchers' Deca Zinc 10 aqua         10% Zn         Neodecanoate         Paraffinic Mineral Oil           Borchers' Deca Zinc 11/12         11-2% Zn         Neodecanoate         White Spirit D60           Octa-Soligen' Zinc 8         8% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 8         8% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 12         12% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 23         23% Zn         Octoate         White Spirit D60           Octa-Soligen' Zinc 23         23% Zn         Octoate         White Spirit D60           Borchers' Deca Zirconium 8 aqua         8% Zr	Borchers® Deca Manganese 8 HS	8% Mn	Neodecanoate	Fatty acid ester, free of VOC
Octa-Soligen' Manganese 10 10% Mn Octoate White Spirit D60 Octa-Soligen' Manganese 10 (oii) 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 10% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 aqua 10% Zn Neodecanoate Water dispersible oil Borchers' Deca Zinc 11/12 11-12% Zn Neodecanoate Paraffinic Mineral Oil Borchers' Deca Zinc 12 12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23 23% Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 6 6% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 10 10% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Octoate White Spirit D60	Octa-Soligen® Manganese 6	6% Mn	Octoate	White Spirit D60
Octa-Soligen' Manganese 10 (oil) Octa-Soligen' Manganese 10 (oil) Octa-Soligen' Manganese 10 HS  10% Mn Octoate Fatty acid ester, free of VOC  Zinc  Zinc  Borchers' Deca Zinc 8  8% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10  10% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 aqua 10% Zn Neodecanoate Water dispersible oil  Borchers' Deca Zinc 11/12  11-12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 12  12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8  8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12  12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12  12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23  23% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23  Zirconium  Borchers' Deca Zirconium 6  6% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 10  10% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 I5% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 I5% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6  6% Zr Neodecanoate White Spirit D60	Octa-Soligen® Manganese 8 (oil)	8% Mn	Octoate	Oil
Deta-Soligen' Manganese 10 HS   10% Mm   Octoate   Fatty acid ester, free of VOC	Octa-Soligen® Manganese 10	10% Mn	Octoate	White Spirit D60
Borchers' Deca Zinc 8 8% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 10% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 aqua 10% Zn Neodecanoate Water dispersible oil  Borchers' Deca Zinc 10 aqua 10% Zn Neodecanoate Water dispersible oil  Borchers' Deca Zinc 11/12 11-12% Zn Neodecanoate Paraffinic Mineral Oil  Borchers' Deca Zinc 12 12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23 23% Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 6 6% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 8 aqua 8% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 10 10% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Octoate White Spirit D60	Octa-Soligen® Manganese 10 (oil)	10% Mn	Octoate	Oil
Borchers' Deca Zinc 8  Borchers' Deca Zinc 10  Borchers' Deca Zinc 10  Borchers' Deca Zinc 10  Borchers' Deca Zinc 10 aqua  10% Zn  Neodecanoate  White Spirit D60  Water dispersible oil  Borchers' Deca Zinc 11/12  11-12% Zn  Neodecanoate  White Spirit D60  Cota-Soligen' Zinc 8  8% Zn  Octoate  White Spirit D60  Octa-Soligen' Zinc 10  Octa-Soligen' Zinc 10  Octa-Soligen' Zinc 10  Octa-Soligen' Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen' Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen' Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen' Zinc 23  23% Zn  Octoate  White Spirit D60  Octa-Soligen' Zinc 23  Zirconium  Borchers' Deca Zirconium 6  6% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 10  10% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 12 HS  12% Zr  Neodecanoate  Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15  15% Zr  Neodecanoate  White Spirit D60  Borchers' Deca Zirconium 15 HS  15% Zr  Neodecanoate  White Spirit D60  Octa-Soligen' Zirconium 15 HS  15% Zr  Neodecanoate  White Spirit D60	Octa-Soligen® Manganese 10 HS	10% Mn	Octoate	Fatty acid ester, free of VOC
Borchers' Deca Zinc 10 10% Zn Neodecanoate White Spirit D60  Borchers' Deca Zinc 10 aqua 10% Zn Neodecanoate Water dispersible oil  Borchers' Deca Zinc 11/12 11-12% Zn Neodecanoate Paraffinic Mineral Oil  Borchers' Deca Zinc 12 12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23 23% Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 6 6% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 10 10% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 HS 12% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60	Zinc			
Borchers' Deca Zinc 10 aqua  10% Zn Neodecanoate Water dispersible oil  Borchers' Deca Zinc 11/12  11-12% Zn Neodecanoate Paraffinic Mineral Oil  Borchers' Deca Zinc 12  12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8  8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 10  10% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12  12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23  23% Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 6  Borchers' Deca Zirconium 8 aqua  8% Zr Neodecanoate Water dispersible oil  Borchers' Deca Zirconium 10  10% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12  12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15  15% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15 HS  15% Zr Neodecanoate Fatty acid ester, free of VOC  Octas-Soligen' Zirconium 6  6% Zr Octoate White Spirit D60	Borchers® Deca Zinc 8	8% Zn	Neodecanoate	White Spirit D60
Borchers' Deca Zinc 11/12 11-12% Zn Neodecanoate Paraffinic Mineral Oil  Borchers' Deca Zinc 12 12% Zn Neodecanoate White Spirit D60  Octa-Soligen' Zinc 8 8% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 10 10% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 12 12% Zn Octoate White Spirit D60  Octa-Soligen' Zinc 23 23% Zn Octoate Solvent-free  Zirconium  Borchers' Deca Zirconium 6 6% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 10 10% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Octoate White Spirit D60  Borchers' Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen' Zirconium 6 6% Zr Octoate White Spirit D60	Borchers® Deca Zinc 10	10% Zn	Neodecanoate	White Spirit D60
Borchers* Deca Zinc 12  12% Zn  Neodecanoate  White Spirit D60  Octa-Soligen* Zinc 8  8% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 10  10% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 23  23% Zn  Octoate  Solvent-free  Zirconium  Borchers* Deca Zirconium 6  6% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 8 aqua  8% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 10  10% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15  15% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15  15% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15  15% Zr  Neodecanoate  Fatty acid ester, reduced VOC  Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6  White Spirit D60	Borchers® Deca Zinc 10 aqua	10% Zn	Neodecanoate	Water dispersible oil
Octa-Soligen* Zinc 8  Octa-Soligen* Zinc 10  Octa-Soligen* Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 23  23% Zn  Octoate  Solvent-free  Zirconium  Borchers* Deca Zirconium 6  Borchers* Deca Zirconium 8 aqua  8% Zr  Neodecanoate  Water dispersible oil  Borchers* Deca Zirconium 10  10% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12 HS  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15  15% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6  White Spirit D60	Borchers® Deca Zinc 11/12	11-12% Zn	Neodecanoate	Paraffinic Mineral Oil
Octa-Soligen* Zinc 10  Octa-Soligen* Zinc 12  12% Zn  Octoate  White Spirit D60  Octa-Soligen* Zinc 23  23% Zn  Octoate  Solvent-free  Zirconium  Borchers* Deca Zirconium 8 aqua  Borchers* Deca Zirconium 10  10% Zr  Neodecanoate  White Spirit D60  White Spirit D60  Borchers* Deca Zirconium 10  10% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12 HS  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  White Spirit D60  Octa-Soligen* Zirconium 15 HS  15% Zr  Neodecanoate  Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6  White Spirit D60	Borchers® Deca Zinc 12	12% Zn	Neodecanoate	White Spirit D60
Octa-Soligen* Zinc 12       12% Zn       Octoate       White Spirit D60         Octa-Soligen* Zinc 23       23% Zn       Octoate       Solvent-free         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 10       10% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 12       12% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 15       15% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 15 HS       15% Zr       Neodecanoate       Fatty acid ester, free of VOC         Octa-Soligen* Zirconium 6       6% Zr       Octoate       White Spirit D60	Octa-Soligen® Zinc 8	8% Zn	Octoate	White Spirit D60
Octa-Soligen* Zinc 23       23% Zn       Octoate       Solvent-free         Zirconium         Borchers* Deca Zirconium 6       6% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 10       10% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 12       12% Zr       Neodecanoate       Fatty acid ester, reduced VOC         Borchers* Deca Zirconium 15       15% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 15 HS       15% Zr       Neodecanoate       Fatty acid ester, free of VOC         Octa-Soligen* Zirconium 6       6% Zr       Octoate       White Spirit D60	Octa-Soligen® Zinc 10	10% Zn	Octoate	White Spirit D60
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 10 10% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 12 HS 12% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers* Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 15 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6 6% Zr Octoate White Spirit D60	Octa-Soligen® Zinc 12	12% Zn	Octoate	White Spirit D60
Borchers* Deca Zirconium 66% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 8 aqua8% ZrNeodecanoateWater dispersible oilBorchers* Deca Zirconium 1010% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 1212% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 12 HS12% ZrNeodecanoateFatty acid ester, reduced VOCBorchers* Deca Zirconium 1515% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 15 HS15% ZrNeodecanoateFatty acid ester, free of VOCOcta-Soligen* Zirconium 66% ZrOctoateWhite Spirit D60	Octa-Soligen® Zinc 23	23% Zn	Octoate	Solvent-free
Borchers* Deca Zirconium 8 aqua 8% Zr Neodecanoate Water dispersible oil  Borchers* Deca Zirconium 10 10% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 12 12% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 12 HS 12% Zr Neodecanoate Fatty acid ester, reduced VOC  Borchers* Deca Zirconium 15 15% Zr Neodecanoate White Spirit D60  Borchers* Deca Zirconium 15 HS 15% Zr Neodecanoate Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6 6% Zr Octoate White Spirit D60	Zirconium			
Borchers* Deca Zirconium 1010% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 1212% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 12 HS12% ZrNeodecanoateFatty acid ester, reduced VOCBorchers* Deca Zirconium 1515% ZrNeodecanoateWhite Spirit D60Borchers* Deca Zirconium 15 HS15% ZrNeodecanoateFatty acid ester, free of VOCOcta-Soligen* Zirconium 66% ZrOctoateWhite Spirit D60	Borchers <sup>®</sup> Deca Zirconium 6	6% Zr	Neodecanoate	White Spirit D60
Borchers* Deca Zirconium 12  12% Zr  Neodecanoate  White Spirit D60  Borchers* Deca Zirconium 12 HS  12% Zr  Neodecanoate  Fatty acid ester, reduced VOC  White Spirit D60  Borchers* Deca Zirconium 15  15% Zr  Neodecanoate  White Spirit D60  Cta-Soligen* Zirconium 6  6% Zr  Octoate  White Spirit D60	Borchers <sup>®</sup> Deca Zirconium 8 aqua	8% Zr	Neodecanoate	Water dispersible oil
Borchers* Deca Zirconium 12 HS       12% Zr       Neodecanoate       Fatty acid ester, reduced VOC         Borchers* Deca Zirconium 15       15% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 15 HS       15% Zr       Neodecanoate       Fatty acid ester, free of VOC         Octa-Soligen* Zirconium 6       6% Zr       Octoate       White Spirit D60	Borchers® Deca Zirconium 10	10% Zr	Neodecanoate	White Spirit D60
Borchers* Deca Zirconium 15       15% Zr       Neodecanoate       White Spirit D60         Borchers* Deca Zirconium 15 HS       15% Zr       Neodecanoate       Fatty acid ester, free of VOC         Octa-Soligen* Zirconium 6       6% Zr       Octoate       White Spirit D60	Borchers® Deca Zirconium 12	12% Zr	Neodecanoate	White Spirit D60
Borchers* Deca Zirconium 15 HS  15% Zr  Neodecanoate  Fatty acid ester, free of VOC  Octa-Soligen* Zirconium 6  6% Zr  Octoate  White Spirit D60	Borchers® Deca Zirconium 12 HS	12% Zr	Neodecanoate	Fatty acid ester, reduced VOC
Octa-Soligen* Zirconium 6 6% Zr Octoate White Spirit D60	Borchers® Deca Zirconium 15	15% Zr	Neodecanoate	White Spirit D60
	Borchers® Deca Zirconium 15 HS	15% Zr	Neodecanoate	Fatty acid ester, free of VOC
Octa-Soligen® Zirconium 10 10% Zr Octoate White Spirit D60	Octa-Soligen® Zirconium 6	6% Zr	Octoate	White Spirit D60
	Octa-Soligen® Zirconium 10	10% Zr	Octoate	White Spirit D60



#### **DRIERS** (continued)

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

Product Name	Metal	Chemistry/Salt	Description/Solvent
Zirconium			
Octa-Soligen® Zirconium 10 aqua	10% Zr	Octoate	Water dispersible oil
Octa-Soligen® Zirconium 12	12% Zr	Octoate	White Spirit D60
Octa-Soligen® Zirconium 12 HS	12% Zr	Octoate	Fatty acid ester, free of VOC
Octa-Soligen° Zirconium 18	18% Zr	Octoate	White Spirit D60
Octa-Soligen <sup>®</sup> Zirconium 18 HS	18% Zr	Octoate	Fatty acid ester, free of VOC
Octa-Soligen® Zirconium 24	24% Zr	Octoate	White Spirit D60
Other Metals			
Borchers® Deca Lithium 2	2% Li	Neodecanoate	White Spirit D60
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 D60
Octa-Soligen* Iron 7/8	7/8% Fe	Octoate	White Spirit D60
Octa-Soligen* Iron 7/8 HS	7/8% Fe	Octoate	Fatty acid ester, free of VOC
Octa-Soligen* Strontium 10	10% Sr	Octoate	White Spirit D60
Octa-Soligen® Barium 12.5	12,5% Ba	Octoate	White Spirit D60
7% AOC E	7% AI	Organic Complex	White Spirit D60 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 421 aqua	Co, Zn, Zr	Neodecanoate	Fatty acid ester, paraffinic mineral oil
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
Octa-Soligen® 27	Co, Ca, Zr	Octoate	White Spirit D60
Octa-Soligen® 155	Co, Ca, Zr	Octoate	White Spirit D60
Octa-Soligen® 161	Co, Ca, Zr	Octoate	White Spirit D60
Octa-Soligen® 69	Co, Zr	Octoate	White Spirit D60
Octa-Soligen® 69 HS	Co, Zr	Octoate	Fatty acid ester, free of VOC

# DRIERS (continued)

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

Product Name	Metal	Chemistry/Salt	Description/Solvent
Blends			
Octa-Soligen° 141 Z	Co, Ca, Zr, Zn	Octoate	White Spirit D60
Octa-Soligen° 144 aqua	Co, Zn, Zr	Octoate	Water dispersible oil
Octa-Soligen® 421 aqua	Co, Zr, Zn	Octoate	Water dispersible oil
Octa-Soligen° 146	Co, Ca, Li	Octoate	White Spirit D60
Octa-Soligen° 123 aqua	Co, Ba, Zn	Octoate	Water dispersible White Spirit D60
Octa-Soligen <sup>®</sup> 203	Co, Ba, Zn	Octoate	White Spirit D60
Octa-Soligen® 173	Co, Ba, Zr	Octoate	White Spirit D60

# **CATALYSTS**

Metal carboxylates for urethanes.

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Product Name	Metal	Description				
Bismuth						
Borchi <sup>®</sup> Kat 315 EU	16% Bi	<ul> <li>Solvent-free; specially designed for one- and two-component polyurethane systems and RTV silicones</li> <li>Accelerates the chemical reaction between the polyol and isocyanate component of polyurethane foam systems</li> </ul>				
Borchi <sup>®</sup> Kat 21	21% Bi	Highly reactive tin-free catalyst for solvent-based one- and two-component polyurethane clearcoats and pigmented coating systems				
Borchi <sup>®</sup> Kat 24	24% Bi	<ul> <li>Solvent-free; specially designed for one- and two-component polyurethane systems</li> <li>Accelerates the chemical reaction between the alcohol and isocyanate component of polyurethane coatings systems, thus allowing optimum control of the drying properties</li> </ul>				
Cobalt						
Octa-Soligen* Cobalt 6 (xylene)	6% Co	Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene				
Octa-Soligen* Cobalt 10 (xylene)	10% Co	Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene				
Borchers* Deca Cobalt 10 (xylene)	10% Co	Cobalt neodecanoate catalyst; accelerator for polyester systems; dissolved in xylene				
Octa-Soligen* Cobalt 12 (xylene)	12% Co	Cobalt octoate catalyst; accelerator for polyester systems; dissolved in xylene				
Copper						
Borchers® Deca Copper 8	8% Cu	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	• Primary neodecanoate catalyst for rigid urethane foams, accelerator additive for unsaturated polyesters and pot life stabilizer for two-component PUR systems		
15% Potassium Hex-Cem® EU	15% K	• 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> <li>Specially designed for water-based two-component polyurethane coatings</li> <li>Accelerates the cross-linking process and improves the drying of chemically curing systems</li> </ul>		
Borchi <sup>®</sup> Kat 28	28% Sn	• 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 alkyds		
Zinc				
Borchi <sup>®</sup> Kat 15	15% Zn	<ul> <li>Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems</li> <li>Diluted in dearomatized white spirit</li> </ul>		
Borchi <sup>®</sup> Kat 0761	15% Zn	<ul> <li>Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems</li> <li>Diluted in fatty ester</li> </ul>		
Borchi <sup>®</sup> Kat 19	19% Zn	Tin-free catalyst for solvent-based one- and two-component polyurethane clearcoats and pigmented coating systems		
Borchi <sup>°</sup> Kat 22	22% Zn	• Tin-, VOC- and solvent-free metal carboxylate-based catalyst with moderate reactivity for solvent-based and solvent-free one- and two-component polyurethane coatings and chemical synthesis		
Blends				
Borchi <sup>®</sup> Kat 0243	Bi, Li	<ul> <li>Tin-, VOC- and solvent-free catalyst based on a combination of metal carboxylates for polyurethane reactions</li> <li>Especially for solvent-based and solvent-free one- and two-component polyurethane clear coats and two component polyurethane adhesives as well as for the modification of silicones</li> </ul>		
Borchi <sup>®</sup> Kat 0244	Bi, Zn	<ul> <li>Tin-, VOC- and solvent-free catalyst based on a combination of metal carboxylates for polyurethane reactions</li> <li>Especially for solvent-based and solvent-free one- and two-component polyurethane clear coats and two-component polyurethane adhesives</li> </ul>		
Borchi <sup>®</sup> Kat 0245	Zn, Ca	<ul> <li>Tin-free metal carboxylate-based catalyst with moderate activity esp. for solvent-based pigmented one- and two-component polyurethane coatings</li> <li>Dissolved in xylene</li> </ul>		

# **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 0851	W	Polyurethane	50% in water	<ul> <li>VOC- and APEO-free; specially designed for dispersing difficult organic pigments and carbon black in water-based systems</li> <li>Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability</li> </ul>
Borchi <sup>®</sup> Gen 1750	W	Polyurethane	40% in water	<ul> <li>VOC-free; specially designed for transparent and opaque iron oxides, inorganic pigments and extenders in water-based systems</li> <li>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</li> </ul>
Borchi <sup>®</sup> Gen SN 95	W	Polyurethane	25% in water	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 <sup>*</sup> Gen WNS	W	Low molecular weight polyether modified compounds	90% in water	<ul> <li>VOC- and APEO-free; recommended for water- or glycol-based universal tinting pastes</li> <li>Provides strong color development with organic pigments and improved storage stability</li> </ul>
Borchi <sup>®</sup> Gen SPE	W/S	Low molecular weight polyether modified compounds	100%	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 <sup>®</sup> Gen LMW	W/S	Low molecular weight polyether modified compounds	100%	<ul> <li>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</li> <li>Improves particle size, viscosity, gloss, and color</li> </ul>
Borchi <sup>®</sup> Gen 12	W/S	Low molecular weight polyether modified compounds	100%	<ul> <li>VOC- and APEO-free; recommended for systems based on CAB and nitrocellulose</li> <li>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</li> </ul>
Borchi <sup>®</sup> Gen ND	W/S	Phosphate/amine compound	100%	<ul> <li>Provides high gloss and strong color development, as well as good pigment wetting properties</li> <li>Acts as an anti-gelling agent when basic pigments and acidic binders are used</li> </ul>
Borchi <sup>®</sup> Gen AP	W/S	Phosphoric acid ester polycondensate	100%	Improves pigment wetting of inorganic pigments and fillers
Borchi <sup>®</sup> Gen 1757	W/S	Copolymer with pigment affinic groups	100%	<ul> <li>VOC-free; hybrid wetting and dispersing additive providing a combination of various principles of pigment stabilization</li> <li>Produces vibrant color and superior opacity with a wide range of bismuth vanadate pigments</li> </ul>
Borchi <sup>®</sup> Gen 0755	W/S	Polyurethane	100%	<ul> <li>VOC- and APEO-free; recommended for dispersing difficult organic pigments and carbon black in solvent-based systems; broad compatibility; can be used in nitrocellulose</li> <li>Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability</li> </ul>



#### 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 <sup>®</sup> Gen 0650	W/S	Amine neutralized phosphoric acid ester	100%	<ul> <li>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</li> <li>Provides low viscosity dispersions; may significantly improve the color of tinted white and clear alkyd-based coatings</li> </ul>
Borchi* Gen 0451	W/S	Polyurethane	100%	<ul> <li>VOC- and APEO-free; specially designed for dispersing difficult to disperse organic pigments and carbon black in water- and solvent-based systems</li> <li>Provides low viscosity dispersions, high transparency with organic pigments and long-term dispersion stability</li> </ul>
Borchi* Gen 1252	W/S	Acrylic ester copolymer	100%	<ul> <li>VOC- and APEO-free; recommended for titanium dioxide, iron oxide and other inorganic pigments and fillers in water- and solvent-based coatings systems</li> <li>Provides high tint strength and contrast ratios, as well as stable dispersion with excellent color development for iron oxide pigments</li> </ul>
Borchi <sup>®</sup> Gen 911	S	Modified polyester	70% in white spirits	<ul> <li>Recommended for alkyd solvent-based coatings, as well as nitrocellulose-based systems</li> <li>Provides improved pigment wetting, shorter dispersion time of organic and inorganic pigments and good storage stability of the finished paint</li> </ul>
Borchi <sup>®</sup> Gen 1051	S	Polyurethane	45% in BAC/MPA	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 <sup>®</sup> Gen 1251	S	Polyurethane	85% in MPA	<ul> <li>Provides excellent pigment wetting, color development and high gloss, as well as low viscosity dispersions and long-term dispersion stability</li> <li>Recommended for organic pigments and carbon black in solvent-based systems</li> </ul>
Borchi <sup>®</sup> Gen 1451	S	Polyurethane	30% in EGDA	<ul> <li>APEO-free; specially designed for dispersing difficult organic pigments and carbon black in solvent-based systems</li> <li>Provides low viscosity dispersions, high transparency with organic pigments and long-term dispersion stability</li> </ul>
Borchi <sup>®</sup> Gen 1452	S	Polyurethane	45% in EGDA	<ul> <li>APEO-free; specially designed for dispersing difficult organic pigments and carbon black in solvent-based systems</li> <li>Provides low viscosity dispersions, high transparency with organic pigments and long-term dispersion stability</li> </ul>

# **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 <sup>®</sup> Boost 510W	W	50% in water	Improves color acceptance in medium to low polarity systems     Provides stronger tints with organic pigment dispersions and carbon blacks
Borchi <sup>®</sup> Boost 570WS	W/S	100%	<ul> <li>Improves color acceptance in medium to low polarity systems</li> <li>Provides stronger tints with organic pigment dispersions and carbon blacks</li> </ul>
Borchi <sup>®</sup> Boost 540WS	W/S	100%	<ul> <li>Improves color acceptance in medium to high polarity systems</li> <li>Provides stronger tints with organic pigment dispersions and carbon blacks</li> </ul>

# **COMPATIBILIZERS**

Borchi® Add products enhance the compatibility of colorants into many base chemistries, including universal water-based colorants into solvent-based 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.

Borcher	s Additive	System*	% Active	Description
Borchi® A	Add 406WS	W/S	90% in water	• Reduces or eliminates rub-out of universal water-based concentrates in solvent-based alkyd bases • Improves compatibility
Borchi <sup>®</sup> A	Add 409WS	W/S	100%	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> <li>Tin- and APEO-free; develops viscosity stability and improves rheological properties mainly in the lower shear range for water-based systems</li> <li>Enables the application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film</li> </ul>			
Borchi* Gel 0620 DFP	W	Low shear/ very strongly pseudoplastic	20% in water/ 2-Butoxyethanol	<ul> <li>Tin- and APEO-free; easy incorporation into coating</li> <li>Enables application of thick surfaces on vertical layers and effectively prevents sagging</li> </ul>			
Borchi <sup>®</sup> Gel 0621	W	Low shear/ very strongly pseudoplastic	30% in water (20% PU)	<ul> <li>Tin-, VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the low shear range for water-based systems</li> <li>Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film</li> </ul>			
Borchi* Gel 0630	W	Low shear/ very strongly pseudoplastic	25% in (2-methoxy- methylethoxy) propanol + 1.2 Propanediol	<ul> <li>Tin-, APEO- and butyl glycol-free; easy incorporation into coating</li> <li>Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film</li> </ul>			
Borchi <sup>*</sup> Gel PW 25	W	Low shear/ strongly pseudoplastic	25% in water/ 1,2 Propanediol (25% PU)	<ul> <li>Emulsifier-free; exceptionally good thickening properties in most fine particle dispersion binders with low emulsifier content in water-based systems</li> <li>Promotes longer open times than normal due to its high capacity for water retention</li> </ul>			
Borchi <sup>®</sup> Gel LW 44	W	Low shear/ strongly pseudoplastic	46% in water (24% PU)	<ul> <li>VOC- and APEO-free; develops viscosity stability mainly in the low shear range for water-based coatings systems</li> <li>Will not cause yellowing or chalking in cured film</li> </ul>			
Borchi <sup>*</sup> Gel THIX 921	W	Low shear/ pseudoplastic	32% in water/ 1.2 Propanediol (25% PU)	Thixotropic and shear thinning in behavior  Contributes to obtaining enhanced storage stability for coatings and enhances leveling and application properties of paint formulations			
Borchi <sup>®</sup> Gel 0625	W	Medium shear/ pseudoplastic	34% in water (25% PU)	<ul> <li>VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the medium and high shear range for water-based systems</li> <li>Improves storage stability, leveling and application properties</li> </ul>			



#### 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 <sup>®</sup> Gel L 75 N	W	Medium shear/ pseudoplastic	50% in water (25% PU)	<ul> <li>VOC- and APEO-free; develops viscosity stability in water-based coatings mainly in the medium shear range; good pigment wetting properties</li> <li>Improves properties for easier brush and roller application and does not yellow or cause chalking in the cured film</li> </ul>			
Borchi <sup>®</sup> Gel L 76	W	Medium shear/ pseudoplastic	50% in water (25% PU)	<ul> <li>Improves rheological properties of aqueous coatings systems, allowing for easier application of paint with brush or roller, especially for emulsion paints</li> </ul>			
Borchi <sup>®</sup> Gel 0626	W	Medium shear/ pseudoplastic	37% in water (25% PU)	<ul> <li>Develops viscosity stability and improves rheological properties mainly in the medium and high shear range for water-based systems</li> <li>Improves storage stability, leveling and application properties</li> </ul>			
Borchi® Gel 0434	W	High shear/ newtonian	20% in water (20% PU)	<ul> <li>VOC- and APEO-free; recommended for latex dispersions and water-based coatings systems in the high shear range</li> <li>Improves brush drag (ICI viscosity), reduces spattering during roller application, and imparts superior flow and leveling</li> </ul>			
Borchi <sup>®</sup> Gel 0435	W	High shear/ newtonian	50% in water (30% PU)	<ul> <li>APEO-free; develops outstanding brush and roll application properties and high shear thixotropy for water-based systems</li> <li>Produces viscosity stability mainly in the higher shear range</li> </ul>			
Other Rheology Modif	iers						
Borchi <sup>®</sup> Gel A LA	W	Low shear/ strongly pseudoplastic	10% anionic acrylate polymer in water	<ul> <li>APEO-free; improves flow and leveling properties of water-based coatings systems mainly in high gloss emulsions</li> <li>Builds viscosity in the low shear range and swells water in the coating rather than associating it with binders</li> </ul>			
Borchi® Gel 0800	W	Low shear/ strongly pseudoplastic	10% anionic acrylate polymer in water	<ul> <li>APEO- and tin-free; highly effective Alkali swellable emulsion (ASE) thickens for a wide range of water-based coatings</li> <li>Builds viscosity in the low shear range</li> </ul>			
Borchi® Gel PN	W	Low shear/ strongly pseudoplastic	Zirconium complex neutralized with ammonia	<ul> <li>Additive for use in water-based coatings systems whose binders contain free hydroxyl and carboxyl groups</li> <li>Develops viscosity in the low shear range; prevents sagging and settling; improves viscosity stability of a coating after tinting with universal colorants; need for biocides</li> </ul>			
Borchi <sup>®</sup> Gel NA	W	Low shear/ strongly pseudoplastic	Zirconium complex neutralized with sodium hydroxide	<ul> <li>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</li> <li>Improves viscosity stability of a coating after tinting with universal colorants, does not contain any odor</li> </ul>			
Borchi <sup>®</sup> Set 134	S	Low shear/ strongly pseudoplastic	25% in modified alkyd resin and solvent mixture	<ul> <li>Anti-settling agent for solvent-based systems containing dense pigments</li> <li>Inhibits the hard settling of coatings and easily incorporated with high shear dispersing equipment</li> </ul>			
Borchi <sup>®</sup> Gel Thixo 2	S	Low shear/ strongly pseudoplastic	N/A	<ul> <li>Enhances thixotropic character of paints with solvents of non-polar or weakl polar nature</li> <li>Reduces settling and floating of pigments and promotes pigment dispersion during manufacturing</li> </ul>			

# **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.

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Borchers Additive	System*	Chemistry	% Active	Description			
Borchi <sup>®</sup> Gol 1570	W/S	Polyether modified polysiloxane (PDMS)	100%	<ul> <li>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</li> <li>Inhibits the formation of surface defects like craters and pinholes; VOC-free</li> </ul>			
Borchi® Gol 1670	S	Polydimethylsiloxane	100%	Reduces surface tension			
				Prevents pigment float and Bénard cell formation			
Borchi <sup>®</sup> Gol 1375	W/S	Silicone-free mixture of ethoxylated alcohols and surfactants	N/A	<ul> <li>VOC- and APEO-free; recommended for challenging surfaces and dirty substrates in water- and solvent-based systems</li> <li>Provides reductions in surface tension, improvements in the wetting process and low-foaming tendencies in formulations</li> </ul>			
Borchi <sup>®</sup> Gol LA 2	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; provides lowered surface tension as well as mar, scratch and block resistance</li> <li>Inhibits the formation of surface defects and improves final film appearance</li> </ul>			
Borchi <sup>®</sup> Gol LA 50	W/S	Polyether modified polysiloxane (PDMS)	50% in dipropylene glycol monobutyl ether	<ul> <li>Lowers surface tension and inhibits the formation of surface defects in non-polar surfaces</li> <li>Can be used in conjunction with Borchi® Gol LA 2 for better slip</li> </ul>			
Borchi <sup>®</sup> Gol LA 200	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; provides improvements in substrate wetting and block and scratch resistance</li> <li>Quickly removes air bubbles from applied coated surfaces and avoids micro foam formation at all production stages</li> </ul>			
Borchi <sup>®</sup> Gol LA 232	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; provides reductions in surface tension, increases in surface slip and improvements in block and scratch resistance</li> <li>Quickly removes air bubbles from applied films to provide smooth surfaces</li> </ul>			
Borchi <sup>®</sup> Gol 3467	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; suitable for clear and pigmented systems, hydrophobic surfaces and water- and solvent-based formulations in wood substrates</li> <li>Provides improvements in substrate wetting and wetting of difficult to wet and dirt contaminated substrates</li> </ul>			
Borchi <sup>®</sup> Gol OL 44	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; broad compatibility; eliminates craters and uneven film applications</li> <li>Increases and improves slip properties with no recoatability issues</li> </ul>			



#### 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 <sup>®</sup> Gol 8701	S	Silicone-free	50% in methoxypropyl acetate	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 <sup>®</sup> Gol LAC 80	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>VOC-free; provides excellent flow and a clear increase in the surface smoothness of paint films; good block resistance</li> <li>Prevents crater formation and largely prevents bleeding in hammer finishes</li> </ul>
Borchi <sup>®</sup> Gol 1473	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	<ul> <li>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</li> <li>Provides improvements in surface smoothness by reducing orange peel and preventing the formation of craters</li> </ul>
Borchi <sup>®</sup> Gol 1474	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	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 H 250	S	Phenyl modified polysiloxane (PDMS)	50% in xylene/butanol	<ul> <li>Provides improvements in leveling of baking enamels</li> <li>Stable up to 250 °C</li> </ul>
Borchi <sup>®</sup> Gol PL	S	Solvent-free phenyl modified polysiloxane (PDMS)	100%	VOC-free; eliminates craters and other surface defects characterized by poor flow in can and coil coatings; stable up to 300 °C     Effective flow promoter and compatible with numerous organic binders
Borchi <sup>®</sup> Gol M 51	S	Polydimethylsiloxane	100%	VOC-free; provides reductions in surface tension and enhanced flow     Counteracts surface defects caused by silicone-based additives
Borchi <sup>®</sup> Gol LA 6	S	Polyether modified polysiloxane (PDMS)	12% in xylene	Provides enhanced substrate wetting, lowered surface tension and block and slip resistance Inhibits the formation of surface defects
Borchi <sup>®</sup> Gol OL 17 LC	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	VOC-free; universal flow promoter with very good compatibility     Improves slip and prevents cratering

# **DEFOAMERS**

Borchers® AF and Borchi® Gol high-performance defoamers are modified polydimethylsiloxane (PDMS) and non-silicone defoamers designed for water- and solvent-based systems. Benefits include foam elimination during the production process (pumping, stirring and grinding) as well as during application by brushing, rolling and spraying.

Borchers Additive	System*	Chemistry	% Active	Description
Borchi <sup>®</sup> Gol LA 200	W/S	Polyether modified polysiloxane	100%	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 1171	W/S	Modified polysiloxane with hydrophobic particles	>98%	Prevents foaming during paint production  Particularly suitable for millbase defoaming for aqueous decorative and general industrial coatings
Borchers® AF T	W/S	Silicone-free tri-n- butyl phosphate	N/A	<ul> <li>Destroys foam and prevents foam formation</li> <li>Suitable for pigment pastes and highly filled systems, as well as improving wettability of adhesives</li> </ul>
Borchers® AF 1270	S	Fluorinated organo- modified polysiloxane	2% in butyl acetate	Recommended for solvent-based epoxies, unsaturated polyesters, two-component polyurethane systems, alkyds and UV systems     Supports fast air release of entrapped air on the film surface
Borchi <sup>®</sup> Gol E2	S	Silicone-free hydrocarbon resins	100%	<ul> <li>Helps eliminate flow defects and craters caused by air entrapment</li> <li>Benefits shown in thick film application for air release</li> </ul>
Borchi <sup>®</sup> Gol 0011	S	Polysiloxane modified preparation of fatty acid esters	100%	<ul> <li>Reduces pigment floating and provides barrier properties to cured film</li> <li>Suitable for high-build systems; can be used in combination with Borchi* Gol E2 in epoxies for improved flow and deaeration</li> </ul>
Borchi® Gol 1470	S	Silicone-free solution of foam destroying polymers	37% in aromatic petroleum solvent	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%	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%	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 <sup>®</sup> Gen HMP-F	W/S	Oil-free polyester resin	80% in solvent mixture	Recommended for baking finishes in water- and solvent-based systems     Improves adhesion to metal in reactive coatings				
Borchi <sup>®</sup> Gen HE	S	Oil-free polyester resin	60% active in xylene	Recommended for baking finishes in solvent-based systems Improves adhesion and long-term elasticity of coatings on metal substrates and adhesion of metallic pigments in paints				
Anti-Blocking Agents								
Borchi® Coll 10	W	Colloidal dispersion of silica	30% in water	<ul> <li>Particle size 9 nm</li> <li>Best transparency and effectiveness; maximum matting effect; improves surface hardness at low film builds</li> </ul>				
Borchi <sup>®</sup> Coll 20	W	Colloidal dispersion of silica	30% in water	<ul><li>Particle size 18 nm</li><li>Low matting effect; improves surface hardness at low film builds</li></ul>				
Anticorrosive	Anticorrosive							
Bayoxide® Z active	W/S	Zinc Oxide	100%	<ul> <li>Increases through drying for additives and topcoats and improves corrosion protection behavior and hardness</li> <li>Reduces yellowing</li> </ul>				
Composite Additives								
Borchi <sup>®</sup> A-111 EU	S	Silicone-free solution of foam destroying polymers	38% in aromatic petroleum solvent	<ul> <li>Most effective general purpose silicone-free air release agent for unsaturated polyester and vinyl ester-based composites</li> <li>Applications include cast polymers and gel coatings, as well as marine, marine laminate and tub/shower coatings</li> </ul>				

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For more information, please reach us at **borchers.com/contact** 

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

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