

Wax Additives for Seed Coatings

Shamrock Technologies is redefining seed coating technologies with wax additives engineered for high efficiency agricultural coating formulations. Our additives support environmental goals while delivering exceptional in-process and field performance.

Advanced Functionality for Agricultural Coatings

Our micronized waxes are optimized for aqueous coating systems, designed to address the critical performance needs of seed treatments and agricultural granulates:

- **Improved Flowability:** Enhances metering and distribution during planting.
- **Anti-Clumping Properties:** Promotes uniform coverage and prevents bridging in hoppers.
- **Abrasion Control:** Reduces mechanical damage to seed coatings during processing and transport.
- **Dust Suppression:** Helps maintain clean operations and consistent pigment distribution.

BioSLIP®: Plant-Based Performance You Can Trust

Our expanding BioSLIP® series is crafted from renewable natural sources and designed for compatibility with modern coating chemistries. The line offers:

- Reliable slip and mar resistance
- Maintained gloss and optical properties
- Stability across a range of pH and binder systems
- Improved durability and extended product shelf life

BioSLIP® products provide a sustainable path forward for formulators looking to reduce dependency on fossil-based raw materials without compromising performance.



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Natural Wax: Bio-based wax additives designed for high performance seed coatings

Product	MP (°C)	Typical MV (µm)	Composition	Notes	Microplastic Free
BioSLIP® 222	102-106	5	Bio-based wax alloy	For overall improved performance	✓
BioSLIP® 297	80	-	Natural wax	Good abrasion resistance	✓
BioSLIP® 677	83-85	8	Soft bio-based wax alloy	For improved flow and abrasion resistance	✓
BioSLIP® 678	83-85	8	Soft natural wax alloy	Designed for greater plantability	✓
BioSLIP® C-519	82-85	11	Carnauba wax powder	For reducing dust-off and improved abrasion resistance	✓
BioSLIP® C-521	82-85	7	Modified carnauba wax alloy	Excellent all-around performance	✓
BioSLIP® EA-65	147	5	Modified stearic based wax	Improved fluency and anti-bridging	✓
BioSLIP® EC-641	141-145	4	Micronized wax complex	Superior abrasion resistance	
BioSLIP® EC-722	141-145	4	Amide based wax alloy	Excellent abrasion resistance, improved flow and plantability	✓
BioSLIP® E-400	142-144	5	Plant-based wax	Improved flow, dust-off reduction and anti-bridging	✓

Wax Dispersions and Emulsions: A range of micronized to submicron wax additives pre-dispersed for ease of incorporation

Product	% Solids	Composition	Ionic Nature	Notes	Microplastic Free
HydroCER® 135	35	Amide	Anionic	Improved flow, dust-off reduction and anti-bridging	✓
HydroCER® 257	45	FT	Nonionic	Improved flow and plantability	✓
HydroCER® EC-36	35	Carnauba	Anionic	Excellent clarity, improved abrasion resistance and reduced dust-off	✓

Synthetic Wax: Micronized waxes with varying sizes and melting points for a wide range of applications

Product	MP (°C)	Typical MV (µm)	Composition	Notes	Microplastic Free
Neptune 250	107	8	Oxidized PE/Synthetic wax	Easy to disperse wax powder for abrasion resistance and improved flow	
S-256	93-113	5	Carnauba/Synthetic wax	Excellent abrasion resistance, dust-off reduction and greater flow	✓
S-379H/N8	100	6/11	Synthetic wax	High flow and improved plantability	✓
S-394-MG/N1/N5	112	4/5/7	Synthetic wax	Greater abrasion resistance and dust-off reduction	✓
S-395-N1/N5	125	5/7	Polyethylene	Superior abrasion resistance, dust-off reduction and improved plantability	



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