

International Conference on Enhanced-Efficiency Fertilizers

An IFA-New Ag International Event
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Hotel Hyatt Regency, Miami, FL, USA

“NEXT GENERATION” DUAL REACTIVE LAYER
POLYMER COATINGS

Jon ROSENTHAL
Florikan ESA Corp, USA



“Next Generation” Dual Reactive Layer Polymer Coatings

**Jon Rosenthal
Co-President
Florikan ESA Corp**



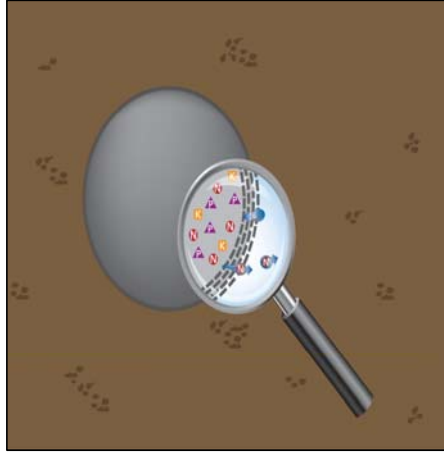
Pushing the Limits of CRF

- Broader Range of Controlled Release Materials
- Reducing Applications in Long Term Tropical Ag Crops
- Scalable, Satellite Production Facilities



DRLP Technology Updates

- Most Recent Polyol & Isocyanate Polymers
- Faster Cure Times
- Increased Resiliency
- Higher Analyses at Longer Release Periods



Coating Possibilities

- Jagged Edges –SOP, MOP, and Micronutrients
- SGN 50 Crystalline Materials
- Pre-Mix Blends



Micro 12-0-42
250x magnified



Citrus Blend
200x magnified



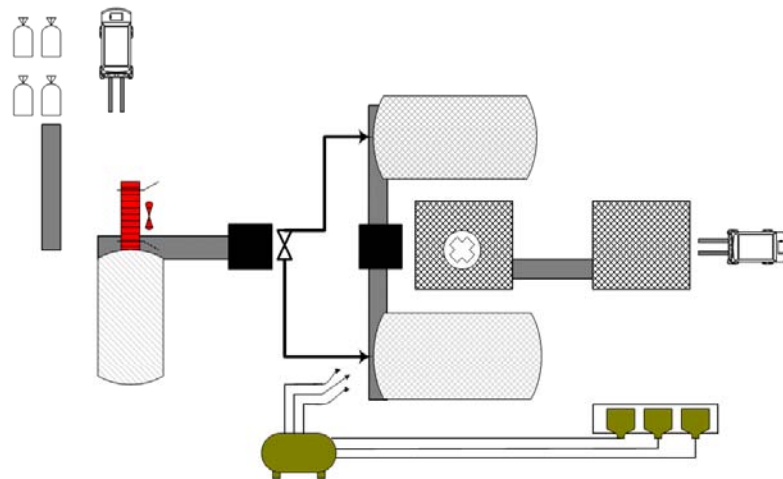
Universal Minors Mix

Using CRF in Tropical Conditions

- Long-term crops requiring multiple applications with greatest inefficiency
- 12+ Month Releases with high integrity in hot and wet climates
- 7 Day Testing at 38 degrees C (100F) for catastrophic failure



Scalable Production – 465 sq meters



 **florikan**
controlled release fertilizers

Market Vision

- **Satellite Coating Facilities**
 - Low Cap-Ex = 15,000 tons
- **Reduced Transport Costs**
- **Production at Basic Producers & Regional Blenders**



Overcoming Objections of CRF in Commercial Agriculture

- **Reducing Costs**
 - Transport
 - Applications
 - Broad range of materials
- **Availability**
 - N,P,K, and Minors
 - Local access
- **Region-Specific Products**
 - Release Projections based on local conditions

