



**Unmatched Coating  
Performance!**

**DRY BULK STORAGE**

A large, cylindrical industrial tank with a circular cutout. The cutout reveals the interior structure, which includes a large, conical hopper-like structure supported by a metal framework. The tank's exterior is covered in water droplets, suggesting a wet or humid environment. The background shows a construction site with a crane.

**Dry Bulk Storage  
Power Utilities  
Minerals & Mining  
Chemical & Petrochem  
Food Product Storage  
Wood Waste / Biofuels**



# Tank Connection & Akzo Nobel – Two industry leaders providing another superb performance in Dry Bulk Storage!

*What happens when the industry leader in storage tanks teams up with the global leader in powder coatings and porcelain enamel technologies?*

## **FUSION 5000 FBE™**

- The ULTIMATE INTERIOR TANK LINING system ever developed for dry bulk storage applications. FBE (Fusion Bond Epoxy) outperforms ALL bolted tank linings offered today worldwide.
- Superior flow promotion qualities.
- Superior abrasion resistant qualities.
- Unmatched in all performance standards including low maintenance and cost efficiency.
- The BEST CHOICE to specify for “Dry Bulk” Storage Containment.

*What happens when both leaders focus on the tank exterior for long life, low maintenance service?*

## **FUSION 5000 FBE™ + EXT FUSION SDP™**

- The ULTIMATE EXTERIOR TANK COATING system ever developed for dry bulk storage applications. Outperforms ALL tank exterior coating systems offered today worldwide. This coating system utilizes the protective properties of our exclusive FBE epoxy powder fused to substrate with a fused topcoat of SD (superdurable) Polyester.
- In recognized exposure testing (Southern Florida Exposure Tests) our exclusive system was rated at “5 years” without change per AMAA 2604-05 specification.

*How good is Fusion 5000 FBE™ + EXT Fusion SDP™?*

- The proprietary formulations are unmatched
- The factory application processes are unmatched
- The field performance is unmatched

## ***The Unmatched Performance of Tank Connection’s FBE System!***



## Specification & System Performance: Fusion 5000 FBE™ + EXT Fusion SDP™

- Storage applications: Dry bulk & liquid storage
- Approval: FDA & NSF approved
- Surface Profile: SSPC 10 (near white)
- Fusion bond process: Certified by Akzo Nobel
- Coating application: Electrostatic applied
- Film thickness: Total DFT @ 6-10 mils

### Fusion 5000 FBE™ (Fusion Bond Epoxy Primer) :

#### Mechanical Testing

- Adhesion: ASTM D3359 100%
- Hardness: ASTM D3363 2H
- Impact: ASTM D2794 160/160
- Flexibility: ASTM D552 1/8"

#### FBE Characteristics

- Superior product flow promotion qualities
- Fusion bonded to substrate surface
- Abrasion resistant – Passes 200 l/mil
- Chip & Scrape resistant
- Chemical immersion – Passes 11,500 hours @ ambient temperature
- Heat resistance, Dry @ 300°F

### EXT Fusion SDP™ (Super Durable Polyester Topcoat):

#### Mechanical Testing

- Adhesion: ASTM D3359 100%
- Hardness: ASTM D3363 H
- Impact: ASTM D2794 40 Direct
- Flexibility: ASTM D552 1/2"

#### SDP Characteristics

- Outstanding toughness with proven weatherability
- Fusion bonded to FBE primer
- Improved gloss retention - Gloss @ 75-90
- Enhanced resistance to chalking or fading
- Outstanding exterior durability - 5 years (Southern Florida Exposure Tests) per AMAA 2604-05
- Unmatched exterior performance in dry bulk storage applications



## The Unmatched Performance of Tank Connection's Fusion FBE™ System

At Tank Connection, we rightfully claim the premier powder coat system for bolted storage tanks worldwide. Our proprietary system and controlled station processes are unmatched by any other bolted tank manufacturer.

Tank Connection's state-of-the-art powder coat technology is the only powder coat line "certified" by Akzo Nobel for bolted storage tanks! Akzo Nobel is the largest powder coat supplier worldwide.

### Comparative Data:

#### INTERIOR LININGS:

Construction	Linings	Mils DFT	Standard Warranty	System Performance
Bolted RTP	Fusion 5000 FBE™	4-6	2 Years	rated @ 10
API 12B	Epoxy Powder	2-4	1 Year	rated @ 5
Field-weld	None	N/A	N/A	N/A
Shop-weld	Liquid Epoxy Primers	2	1 Year	rated @ 4

#### EXTERIOR LININGS:

Construction	Prime	Topcoat	Mils DFT	Standard Warranty	System Performance
Bolted RTP	5000 FBE™ *	EXT SDP™ **	6-10	2 Years	rated @ 10
API 12B	Epoxy Powder	Polyurethane (liquid)	3-5	1 Year	rated @ 6
Field-weld	Epoxy Primer	Acrylic Enamel	6-8	1 Year	rated @ 5
Shop-weld	Epoxy Primer	Acrylic Enamel	3-5	1 Year	rated @ 4

\* FBE – Fusion Bond Epoxy Powder

\*\* SDP – Super Durable Polyester Powder

System performance ratings: Best-10; Very Good-8; Good-6; Average-4; Poor-2

### Dry Bulk Storage Applications – Visit us at [www.tankconnection.com](http://www.tankconnection.com)

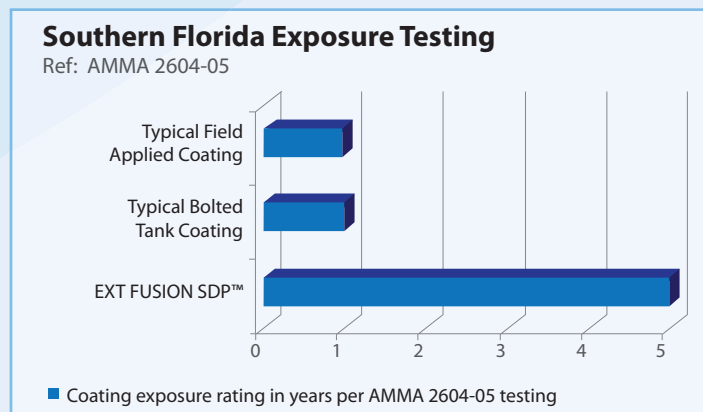
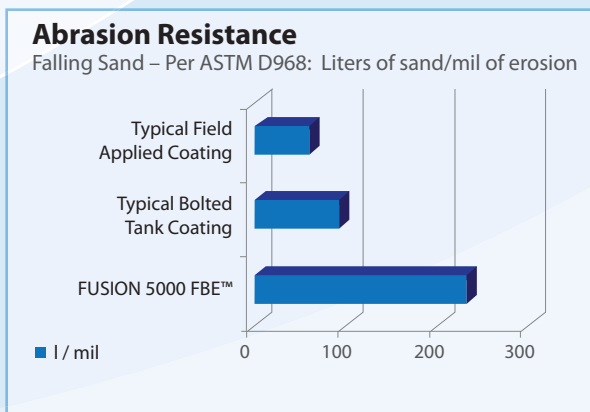
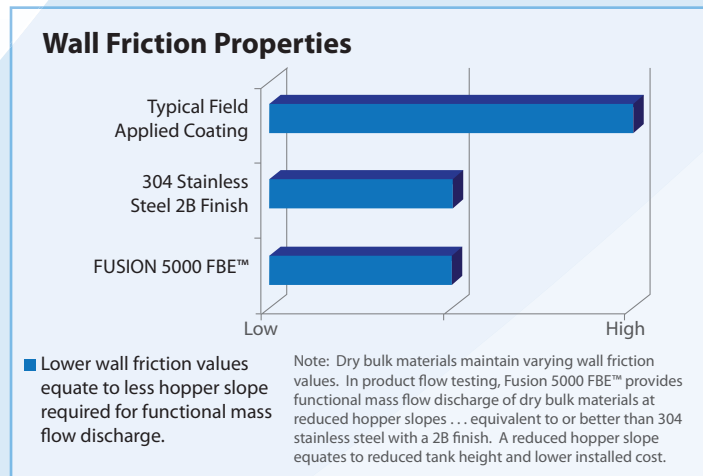
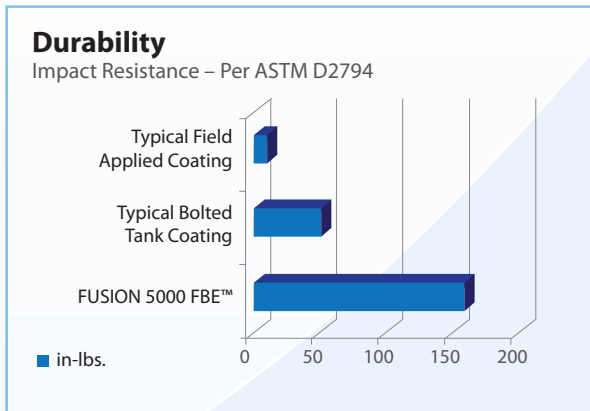
ABS pellets	Dewatered sludge	Other food products	Roofing granules
Activated carbon	Diatomaceous earth	Other lime	Salt
Bentonite	Flour	Other minerals	Sand
Bottom ash	Fly ash	Other plastics	Sanders Dust
Calcium Carbonate	Grain	Other wood products	Sawdust
Carbon black	Gypsum	Pebble lime	Soybean Meal
Cement	Hydrated lime	PE pellets	Sugar
Charcoal	Kaolin Clay	PET	Starch
Coal	Kiln dust	Petroleum coke	Talc
Coffee Beans	Limestone	Perlite	Vermiculite
Column enclosure	Nylon pellets	Polyester pellets	Wood chips
Corn gluten	Ore	Polystyrene pellets	Wood flour
Cornmeal	Other dry chemicals	PVC powder	Wood waste
Crushed rock	Other clay	Regrind plastics	

# The FUSION BOND System Advantage

Get the facts on dry bulk storage at one of our websites. Download our “quick specs” at [www.tankconnection.com](http://www.tankconnection.com) for all types of steel tank construction.

## The FUSION BOND EPOXY (FBE) Advantage over Competitor Coatings:

- Electrostatic applied “powder-on-powder” system provides complete wrap-around on panel edges and in bolt-holes, a major deficiency in liquid applied coatings.
- All internal tank components are coated with Fusion 5000 FBE™ and fusion bonded to substrate surface.
- Fusion 5000 FBE™ can be repaired in the field if damaged.
- Fusion 5000 FBE™ + EXT Fusion SDP™ is applied at twice the DFT (dry film thickness) compared to competitor coatings.
- Fusion 5000 FBE™ performance testing depicts superior performance compared to coatings offered for API 12B construction.
- EXT Fusion 5000 FBE™ maintains a standard 2 year warranty in dry bulk storage. Competitor exterior epoxy powder coatings are offered with a 1 year standard warranty.
- EXT Fusion SDP™ is fused to substrate primer and cannot be scratched-off independent of base coat. (Liquid polyurethane topcoats can easily be scratched-off of base prime coat.)
- EXT Fusion SDP™ (super durable polyester) exterior topcoat maintains a 2 year standard warranty versus competitor coatings offered with a 1 year standard warranty.

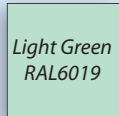


And it is all available in bolted tank construction...shipped worldwide!

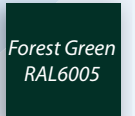
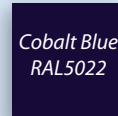


- Chemical Wash, Rinse & Dry
- SSPC - SP10 Blast (Steel Shot Media)
- Interior & Exterior Fusion 5000 FBE™ Application
- Initial Coating Cure @ 350° F
- Infrared Convection
- Exterior EXT Fusion SDP™ Application
- Oven Crosslink Cure @ 400° F
- Testing & Final Inspection

**Standard Colors:**



**Premium Colors:**



The colors shown are printed approximations. The exact color can be viewed using RAL standard color samples.

**Get Connected with the Engineer's 1st Choice in Dry Bulk Storage Containment!**



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