



Excel-Coat F/S

Fire System-Heavy Duty Pedestrian Traffic Membrane ICC-ES Evaluation Report #ESR-2505

COMPOSITION:

The Excel-Coat Fire System is a "Class A", one - hour fire rated, waterproof membrane composed of a cementitious underlayment and a fiberglass-reinforced, acrylic deck coating system. The system is installed in two stages: installation of the metal lath and underlayment, followed by the waterproof membrane installed in three coats. The first coat provides a waterproof seal and attaches a fiberglass mat to the underlayment. The second coat provides skid-resistant texture, and third coat seals in the aggregate to ensure a durable wearing surface.

BASIC USE:

The Excel-Coat Fire System is specifically designed to provide a waterproof wearing surface for exterior and interior pedestrian traffic areas where waterproofing and a "Class A", one hour fire rating are essential. It is ideal for walking decks, balconies and stairways. The Excel-Coat Fire System provides durable protection with ultraviolet light stability and allows for easy maintenance. This system is also excellent for retrofit work.

TECHNICAL DATA:

PROPERTY	Value	ASTM Test
Tensile Strength	2855 PSI	D-2707
Bond Strength- Plywood	138 PSI	C-297
Concrete	24 PSI	C-297
Impact Test	No Cracking	D-3320
Spread of Flame- Combustible	Class A	E-108
Percolation Test	0.08 Perms	
Water Transmission	22.6/MX24 HR.	E-96
Abrasion Resistance	2.8%	D-1242
Fire Endurance	1 Hour	E-199-88

LIMITATIONS:

- Do not apply in constantly submerged conditions such as reflecting ponds or tank linings.
- Not for areas intended for vehicular traffic.

GRADE:

The Excel-Coat Fire System includes an acrylic polymer-modified concrete underlayment (Excel-Crete), a base coat (Excel-Coat #1), a texture coat (Excel-Coat #200), a top coat (Excel-Coat #300) and a Excel-Coat Patching Compound. All resins are suitable for horizontal use. Random chop fiberglass mat offers excellent strength and durability, yet allows penetration of the base coat to ensure complete adhesion.

An alternate texture coat of Excel-Crete K/D and Tinted Additive may be used for increased skid resistance and durability. Excel-Crete Retarder may be added to extend working time of this texture application.

PACKAGING:

Excel-Crete underlayment is available in 50 lb. bags. Excel-Crete Additive, Excel-Coat #1, Excel-Coat #200 and Excel-Coat #300 are available in 1 and 5 gallon containers (U.S. gallon measures). Primers, fiberglass mat, Excel-Coat Patching Compound, metal lath and staples are sold separately in various sizes and quantities.

Alternate texture using Excel-Crete K/D is packaged in 50 lbs. bags. Excel-Crete Tinted Additive is available in 1 and 5 gallon containers. Excel-Crete Retarder is available in pre-measured packets.

SHELF-LIFE:

Twelve months from shipping date, stored below 80°F. Do not allow product to freeze. Do not store Excel-Crete powder in damp or wet area.

COLORS:

Excel-Coat #200 texture is available in 3 standard colors: Gun Metal, Spanish Brown and Tumbleweed. Excel-Coat #300 seal coat is available in 20 standard colors. And, Excel-Crete K/D spray applied texture is available in 13 standard colors, with the option of two-tone color textures with clear seal coats.

Excel-Crete K/D and K/D II pattern and stamped finishes with clear seal coats may be combined with this system when applied to concrete surfaces. Custom color matching is also available upon request at an additional charge. Minimum quantities may apply; overages will apply.

APPLICABLE STANDARDS:

Meets the requirements of ASTM E108-82 for a "CLASS A" Fire Retardant Roof over a combustible substrate of minimum 5/8"plywood and ASTM E-119-88 for a 1 hour fire rating.

JOB CONDITIONS:

Before any waterproofing work is started, the waterproofing applicator shall thoroughly examine all surfaces for any deficiencies. Should any deficiencies exist, the Architect, Owner or General Contractor shall be notified in writing and any corrections necessary should be made.

Cold or inclement weather will effect the cure time of all Excel-Coat F/S products. Do not install over wet substrate, in the rain or if the threat of rain exists within 24 hours.

INSTALLATION:

Refer to *Excel-Coat Fire System Application Guide* for detailed instruction of the application procedure. Individual

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product data sheets may be located in the **Product Data** section of this binder.

FYI: Excellent Coatings has a number of other textures and decorative finishes that can be used with the Excel-Coat Fire System, depending on your needs and/or requirements.

STORAGE AND HANDLING:

Store Excel-Coat in a cool, dry area and protect from freezing. It may be necessary to stir Excel-Coat before using. Containers should be separated according to batch number to ensure color uniformity. When changing from one batch to another, blend one container of each batch to ensure a smooth transition. Partial containers can be resealed. Should a top skin develop on the remaining contents of a container, the physical properties and effectiveness of the contents will not be impaired. Clean mixing and application tools with water. Dispose of empty containers properly according to current Local, State and Federal regulations.

HEALTH AND HAZARD INFORMATION:

Use Excel-Coat products with adequate ventilation and personal protection. Users must read container label and Safety Data Sheet (SDS) for specific health and safety precautions prior to use.

AVAILABILITY:

Immediately available from Excellent Coatings International and authorized distributors.

COST:

Cost data is available from your local Excellent Coatings International authorized representative. For the name and number of the nearest local representative, call Excellent Coatings International at (800) 473-3817.

REPAIRS AND MAINTENANCE:

If damage or excessive wear occurs, simple repairs using the same product can be accomplished. Contact Excellent Coatings International for specific information regarding long-term maintenance. Cleaning can be accomplished by scrubbing with normal detergent soap and water. Heavy stains may require Excel-Coat All-Purpose Cleaner and brushing with a stiff broom.

PRODUCT GUARANTEE/ WARRANTY:

Excellent Coatings International warrants Excel-Coat F/S to be free of defects and manufactured to meet published physical properties for a period of one year following the date of shipment, provided that the product has been applied according to the manufacturer's instructions. Under this warranty, Excellent Coatings International will provide, at no charge, product in containers to replace any product proven to be defective in applications recommended by us as suitable for this product. All claims concerning the product defect must be made within twelve months of shipment and within thirty days of discovery. Absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty is IN LIEU OF any and all other warranties, expressed or implied, including, but not limited to, any implied warranty of MERCHANTABILITY of fitness for a specific purpose.

TECHNICAL SERVICE:

Authorized local representatives are available to provide design assistance and on-site instruction for our products. Excellent Coatings International provides assistance in design and development of special applications and partial inspection. Part-time and full-time inspection and instruction are available

on a fee basis upon arrangement. Technical data is available upon request.

NOTE: Excel-Coat #200 and #300 are formerly known as #2 and #3.

NOTE: To insure uniformity of color, drill-mix all materials before using.

Fire System Spec Data 6/08