

FOR PAINT RESTORATION, ENCASEMENT OF ASBESTOS, LEAD-PAINT, MOLD & OTHER HAZARDOUS SURFACES

TECHNICAL SPECIFICATIONS

Environmental Coatings Inc. systems that use F-50 Penetrating Stabilizer (primer), over coated with F-51 Sealer Coat Skin (top-coat) do fully comply with the following ASTM Test Standards and have earned the Federal, State, City and National approvals listed below:

TECHNICAL DATA

- ◆ **ASTM E-1795-97**, "Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings" – passed all tests when using 10 wet mils of F-50 Penetrating-Stabilizer, over-coated with 10 wet mils of F-51 Sealer Coat. These non-toxic encapsulant materials are approval for use over both interior and exterior surfaces.
- ◆ **ASTM E-84-99**, Surface Burning Characteristics, Class I, Flame Spread Index =5, Smoke Developed Index =5, (this is equal to Class A in NFPA 255, ANSI/UL #723, AND UBC 8-1).
- ◆ **ASTM E-119-98**, Fire Test of encased fireproofing on steel columns, (3-hour test firing, this demonstrates no negative effect on the performance of encased fireproofing insulation).
- ◆ **ASTM E-1494-92**, Fire Test of encased fireproofing on a steel deck, (2-hour test firing, this demonstrates no negative effect on the performance of encased fireproofing insulation).
- ◆ **Passed UPITT (University of Pittsburgh) Combustion Toxicological Testing Protocol**, (no acute lethality of thermal decomposition products).
- ◆ **ASTM E-162-98**, Surface Flammability with Radiant Energy Source, (a DOT Standard) (Fs x Q=Is) Fs = 1.29 Q=1.77, Is = 2.31
- ◆ **ASTM E-736-93**, Passed Cohesion/Adhesion Pull-off Testing over Fire Proofing.
- ◆ **ASTM D-4541**, Pull-off Adhesion/Cohesion of F-50/F-51 System (exceeds 300 psi).
- ◆ **ASTM D-3359**, Pull-off Adhesion (exceeds standards).
- ◆ **ASTM D-4214**, Chalking (encasement system surfaces do not chalk or crack).**ELONGATION >4000%**
F50
- ◆ **ASTM D-4060**, Dry Abrasion Resistance (greatly exceeds test standards).
- ◆ **ASTM D-522**, Flexibility (remains flexible - does not become brittle or crack over time).
- ◆ **ASTM D-2794**, Impact Resistance (160+ inch-lbs. - exceeds testing standard).
- ◆ **ASTM D-3273, D-3274**, Mold and Mildew Resistance (passed).
- ◆ **ASTM D-3359**, Paint-ability (passed, can be over painted).
- ◆ **ASTM D-2486**, Scrub Resistance (exceeded 1200+ cycles test limit).
- ◆ **ASTM D-2370**, Tensile Properties of Encasement System (245 psi).
- ◆ **ASTM D-3960**, Zero VOC's (below 25 ppm detection limit for specified test method).
- ◆ **ASTM D-1653**, Permeability (0.6 perms), water vapor can pass through the multi-layered protective membrane formed through the encasement process ("lets the building breathe").
- ◆ **ASTM D-1308**, Household Chemical & Water Resistance (exceeded the standards on all tests).
- ◆ **ASTM G-53**, Weathering/Aging (1,000 hours) – no chalking, cracking or peeling.
- ◆ **ASTM B-117**, Salt Fog Chamber (no blistering or rusting after 1,500 hours of exposure).
- ◆ **ASTM D-4585**, Humidity Chamber (no blistering or rusting after 1,400 hours of exposure).
- ◆ **Weatherization, Federal Specification TT-C-555B**, Passed the Wind Driven Rain Tests.

Other approvals or acceptances include: DOE, US Army Corps of Engineers, NEHC and the US Department of Agriculture (US Forestry).

Note: *Denotes From ASTM E-1795-97 the National Standard for Encapsulation Products.

All of the above ASTM tests were performed by DL Labs (DLL is Accredited by the National Voluntary Laboratory Accreditation Program – Lab Code 1002523) and Southwest Research Institute (SwRI is a Nationally Recognized Testing Laboratory by National Evaluation Service, Inc., Report numbers NER-TL351 and NER-QA409).