

# Environmental Coatings, Inc.

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## FiberTech F-52 INSULATING CERAMIC SEALER COAT

### PRODUCT DATA SHEET

**Product Description:** FiberTech F-52 Insulating Ceramic Sealer Coat is a ceramic filled, Class A, water based coating, specially designed to waterproof and protect roof surfaces, masonry and brick on the exterior and all surfaces on the interior of buildings. The F-52 acts as a thermal barrier, and is highly mold resistant for use in areas where there is high humidity or constant mold growth. Its unique feature is its microsphere technology that performs as a radiant heat barrier. This insulating technology works by reflecting and dissipating heat that would normally enter exterior walls. This technology was developed in conjunction with NASA. The result of the research was a ceramic microsphere technology, where the spheres have vacuum cores that reduce thermal conductivity. When the microspheres are mixed with paint, they form a hard, hollow packed film that reflects and dissipates heat. The ceramic spheres refract heat and reduce the infrared ray intrusion by, up to 90 percent. Up to 80 % of ultra violet rays are reflected back into the atmosphere. This long lasting, ceramic additive has been engineered to reflect UV and IR light spectrums and creates an R-value of up to 10, which can subsequently reduce the overall exterior temperature by as much as 20% depending upon the thickness of the dry mil film. This microsphere technology uses a vacuum inside each ceramic sphere, creating a thermal reflective layer, blocking 90 percent of infrared red heat, thus creating a dramatic reduction in heat transference. This technology works in the reverse on inside applications keeping heat in during the winter months and cool in the summer months. Using this additive can reduce sun damage and increase the life of an application.

It can be used on its own and is self-priming or in conjunction with FiberTech F-50 Penetrating Stabilizer Primer, to form a waterproof jacket on all roof, metal, wood, masonry and brick surfaces even when surfaces show signs of surface instability.

**Uses:** FiberTech F-52 is effective in reducing the heat transfer inside of buildings because of its highly reflective properties and the ceramic beads reduce heat transfer inside of the building. It is effective on all previously painted and unpainted interior and exterior, vertical and overhead surfaces. It can be applied over all roof, masonry, brick, terra cotta, stucco, SMU, wood, fiberboard, plaster, and metals surfaces (some surfaces require FiberTech F-50 Primer). It has excellent adhesion and waterproofing properties and can stand up against ponding water on roof substrates including bituminous surfaces. It can also be applied to PVC surfaces.

**Special Properties:** FiberTech F-52 has been specially formulated to inhibit the growth of mold and can be used in areas subjected to ponding water. Exceeds all ASTM standards for Salt Fog, Weathering/Aging, Humidity, and Chemical and water resistance. It has excellent flexibility and adhesion qualities.

Vehicle by Weight	20.2%
Pigment by Weight	50.5%
Volume Solids	58.8%
Weight	11.7 LBS/GAL
Film Thickness	15-20 wet mils per coat
Recommended Coats	2 Coats
Viscosity	115-130 KU
VOC	.35 lbs/gal.

**Surface Preparation:** FiberTech F-52 Insulating Sealer Coat may be applied over any painted or unpainted surface without loss of effectiveness. Application is by brush, roller, or spray application. Surface to be painted should be clean, free from oils, grease, dirt and loose paint scale. No preparation is necessary to apply over the FiberTech F-50 Penetrating Primer. F-52 Sealer Coat produces no objectionable odors of fumes during the application process.

**Application:** Brush, roller or spray.

Roll: Use ¼” to ½” synthetic roller cover. Roll in one direction. Do not over roll.

Rev 3-28-12