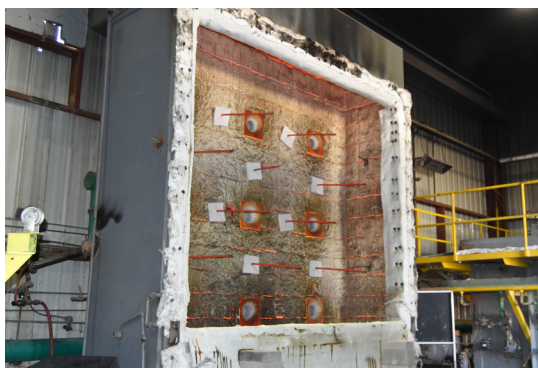




their safety is essential.
Protecting people, property, and the planet.

SC-3900 Secondary Containment Wall Achieves ASTM E119 4-Hour Fire Resistance Rating



ASTM E119 furnace unit prior to wall install for test.



Exposed side of SC-3900-coated block wall post stream test with no water pass-through.

Objective:

Traditional fiberglass containment wall systems do not meet fire ratings. BCI customers have inquired about the fire resistance of our SC-3900 coating applied to block walls - could it hold up in the case of a fire in their containment? BCI had a 3rd party agency test a non-load bearing block wall assembly coated with SC3900 on both sides to determine its fire resistance in accordance with ASTM E119-19, standard test methods for fire tests of building construction and materials.

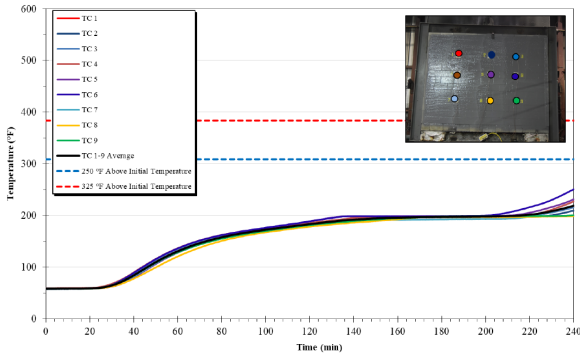
The SC-3900 Spray Coating System:

BCI's SC-3900 spray coating system is temperature stable, chemical resistant, and highly flexible. It provides a seamless, long-lasting solution that bridges cracks, seals voids, and can be installed on a variety of materials including block walls. SC-3900's extremely fast dry time allows for a quick application, limiting downtime, eliminating cost, and often extending life by up to 10+ years.

- 3000-4000 psi tensile strength
- Elongation 100-300%
- High build to 60-1,000 mil pending application requirements
- Temperature stable: -40 to above 200°F
- Highly abrasion resistant
- Chemical resistant
- Zero VOCs
- Non-slip grit upon request

ASTM Test Method for SC-3900:

ASTM E119 test method is intended to evaluate the duration for which a building element will contain a fire, retain its structural integrity, or display both properties dependent upon the type of building element involved, during a predetermined fire exposure time. The test exposes a specimen to a standard fire, controlled to achieve specified temperatures throughout a specified period. When required, the fire exposure is followed by the application of a specified standard fire hose stream applied in accordance with ASTM E2226, Standard Practice for Application of Hose Stream.



Unexposed wall surface temperature of block wall while test was in progress.



Full secondary containment with GC-2100 liner material and SC-3900 coating spray applied to a transformer pad.

ASTM Test Assembly:

The test assembly consisted of a concrete masonry unit (CMU) block wall measuring 12 x 9ft coated on both sides with Basic Concept's SC-3900 Elastomeric Coating.

Key Observations During SC-3900 Test:

- 0:00:00 • Furnace ignited, test started (ambient temp 62.3°F, relative humidity 32.1%)
- 0:15:00 • No visible flames on the exposed side of the wall
- 1:00:00 • No change, no visible flames on the exposed side of the wall
- 2:00:00 • No change
- 4:00:00 • End of test (230°F average temp of unexposed surface of block wall; 2000°F max internal furnace temp)
- 4:02:50 • Hose stream test begins (5min 24s duration at 45 psi)
- 4:08:14 • Hose stream test ends with no pass-through of water. Test successful

ASTM Test Results:

Based on the 3rd party test results, the block wall assembly coated with SC-3900, tested as described, achieving a fire resistance rating of 4 hours when tested in accordance with ASTM E119.

Conclusion:

Basic Concepts' SC-3900 spray coating is chemical resistant, highly flexible, and provides a seamless, long-lasting solution to cracks and voids. Traditional fiberglass containment wall systems don't meet fire ratings, but SC-3900 applied to a block wall, with its ASTM E199 4-hour Fire Resistance Rating, provides a strong, safe, and fire-rated solution for containment jobs.

- Transformer storage areas
- Substation oil filled equipment containment
- Any containment with block wall construction

For further information call 1-800-285-4203 or visit us online at BasicConcepts.com