



October 16, 2024

Project No.: 241018ICC

International Chem-Crete
Attn: Radi Al-Rashed
800 Security Row
Richardson, TX 75081

RE: ASP Flex 4
Batch # 4HE225-A15324

Radi,

CMT has completed testing on the sample of joint / crack sealer that was sent to your laboratory in August of 2021. In total 8 tests were run to determine characteristics and performance. Our results were as follows.

Application Temperature Range

Specification

Low 54°F / 12°C
High 95°F / 35°C

60°F / 15°C
90°F / 32°C

The ASP Flex 4 meets the requirement by producing an application range greater than minimum requirements. This test is an observation test at temperature.

Flash Point, Pensky Martens Closed Cup

Specification

409°F / 211°C

>100°F / 38°C

The ASP Flex 4 meets the requirement by producing a flash point greater than 100°F / 38°C. This test was conducted in general accordance with ASTM D-93, Procedure A.

Solids Content by Weight

Specification

91%

>87%

The ASP Flex 4 meets the requirement by producing a solids content greater than 87%. This test was conducted in general accordance with ASTM D-2823, D-6511.

Density, Lb/Gal (L/Kg)

Specification

9.452 (lbs/gal) – 1.134 (L/Kg)

8.95-1.07

The ASP Flex 4 meets the requirement of density when tested in general accordance with ASTM D-71



Flow of Cured Film at 200°F (93°C)

3.5mm

The ASP Flex 4 meets the requirement when tested in general accordance with ASTM D-1851

Specification

NA

Moisture Vapor Transmission Perm/Inch

0.0028 (perm-inch)

The ASP Flex 4 meets the requirement when tested in general accordance with ASTM E-96. See attached report

Specification

0.0048 (perm-inch)

Service Temperature Range

-80 to 210°F / -60 to 100°C

The Service Temperature Range was acquired thru lab testing and observation and appears to meet the specification.

Specification

-80 to 200°F / -62 to 93°C

Resistance to Abrasion by Sandblast

Rating – Excellent

The Resistance to Abrasion by Sandblast Rating was conducted in general accordance with test method FED-TT-C-520. The material (ASP Flex 4) appears to meet the specification.

Specification

Excellent

Each of the 8 tests conducted indicated the ASP Flex 4 meets the required specifications. The material was obtained from Batch #4HE225-1-A15324. Please feel free to call should you have questions or if we may be of further assistance.

Sincerely,

Doug Clement
President / CEO

Sybil K. Ferrier P.E.
Principal Engineer



October 16, 2024

Project No.: 241018ICC

International Chem-Crete
Attn: Radi Al-Rashed
800 Security Row
Richardson, TX 75081

RE: ASP Flex 4
Batch # 4HE225-A15324

Radi,

Our lab has completed testing on a sample noted above in general accordance with ASTM E-96 (method E-desiccant). The test was conducted using a stainless-steel container with a surface area of 11.902". The sample was cast at a width of 0.48" and was stored in a chamber that maintained an average temperature of 100°F and 90% relative humidity. Three tests were conducted, and the average is reported below.

Test #	Perm-Inch
1	0.0033
2	0.0025
3	0.0026
Average	0.0028

Tests were conducted in general accordance with ASMT E-96. Please feel free to call should you have questions or if we may be of further assistance.

Sincerely,

Doug Clement
President / CEO

Sybil K. Ferrier P.E.
Principal Engineer