

Ure-K spray coating

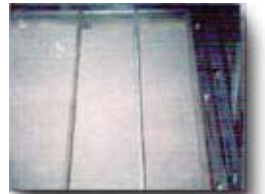
Thermal Barrier Coating
for Polyurethane Foam



Before Installation



Polyurethane Foam Installation



URE-K Coating



Ure-K & Polyurethane Uses

- Freezers
- Coolers
- Refrigerated Warehouses
- Metal Buildings
- Underground Parking Decks
- Projects Requiring High R-Values
- Curtain Wall Hi-Rise Buildings
- Tilt-Up Precast & Poured-In-Place Concrete Construction
- Energy Conservation

Thermal Barrier

Ure-K is a thermal barrier approved as a building interior insulation to delay the ignition and reduce the surface burning rate of low melting, combustible rigid spray-on polyurethane foam. Ure-K may be sprayed over foam in existing buildings or it can be used as a protective coating over foam in new construction projects as a combination system.

Thermal Insulation

Ure-K applied over polyurethane provides additional thermal resistance which will meet the stringent "R" values required for today's energy conservation needs. The combination of Ure-K and polyurethane has the highest of all available insulations.

Noise Control

Ure-K is a monolithic coating which will provide a highly efficient sound absorption surface in either new or existing buildings. This is an important benefit in controlling noise levels to meet OSHA and other requirements.

Installation

The Ure-K fibers and liquid binder are applied to the surfaces simultaneously in separate streams through equipment especially engineered to control the material density and adhesive/fiber ratio. The Ure-K binder provides excellent adhesion to all types of polyurethane foam installations.

Thermal Barrier Testing

Ure-K was tested and has been accepted by National Code Bodies and Fire Insurance companies as a thermal barrier coating over polyurethane foam, used as an interior insulating product. The following tests satisfied these requirements.

Physical Characteristics

Density: Applied 4.0 - 4.5 lbs. per cubic foot

Noise Reduction Coefficient (NRC):

0.75 when applied at 1" thick to a solid backing.

Full Scale Corner Test

Test Method: Conducted in accordance with Factory Mutual Building Corner Fire Test Procedure. Ure-K was applied 1" thick over 1 1/2" polyurethane with a flame spread rating > 200 in the ASTM E-84 Tunnel Test procedure. No sprinklers were used in this test.

Test Results: Ure-K applied at 1" thick is approved for building interior use as a protective coating to delay the ignition and reduce the surface burning rate of low melting, combustible rigid spray-on polyurethane and protect its dimensional stability for a period of 15 minutes in a non-combustible occupancy for unsprinklered wall and ceiling configuration.

ASTM E-119

Test Method: The test panel consisted of Ure-K applied 1" thick over 3" of urethane foam with a flame spread rating of < 75 that had been applied to a 1/2" thick sheetrock.

Test Results: Ure-K as tested had a finished rating of 25 minutes and 1 second.

Enclosed Room Test

Test Method: The test facility consisted of a fully enclosed 8'x12'x8' room. Urethane foam with a flame spread rating < 75 was spray-applied to the interior of the room. Ure-K at 1" thick covered the urethane. Temperatures in the room reached as high as 2,013°F. The test was 30 minutes in length.

Test Results: Under these test conditions, Ure-K did substantially remain in place. Ure-K did crack open and recede due to charring in several areas, most notably in the crib corner area.

ASTM E-84

Flame Spread.....10

Smoked Development.....10

Listings

- ICC Evaluation Service, Inc. - ES Legacy Report Report No. 9566A
- Factory Mutual Research, Serial No. 24703

