



**TOWN OF TRUCKEE**  
**COMMUNITY DEVELOPMENT DEPARTMENT**  
BUILDING AND SAFETY DIVISION

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**Bayseal CC and PP Spray-Applied Polyurethane Insulations**

**PURPOSE:** To acknowledge approval of Bayseal CC and PP Spray-Applied Polyurethane Insulations

**COMMENTS:**

Bayseal CC and PP spray-applied polyurethane insulations are medium density spray applied closed cell foam products. They are approved for use within the Town of Truckee when they are installed in accordance with ICC Evaluation Service Report ESR-2072.

These products may be installed at thicknesses of four inches or less, However, they may be installed at thicknesses of eight inches for wall cavities and 12 inches for ceiling cavities provided a 15 minute thermal barrier (such as 1/2 inch drywall) is installed.

A prescriptive ignition barrier is required where the product is installed in an attic or crawl space that includes a heat producing appliance. The prescriptive ignition barrier may be intumescent paint, sheetrock, structural sheathing or other material as identified in IRC R316.

# ICC-ES Evaluation Report

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DIVISION: 07--THERMAL AND MOISTURE  
PROTECTION Section: 07210—Building  
Insulation REPORT HOLDER:

BAYER MATERIALSCIENCE, LLC  
3010 WEST LINCOLN STREET  
PHOENIX, ARIZONA  
85009 (602) 269-9711  
[www.BaySystemsSprav.co](http://www.BaySystemsSprav.co)  
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## EVALUATION SUBJECT:

**BAYSEAL™ CC AND BAYSEAL™ PP  
SPRAY-APPLIED  
POLYURETHANE FOAM INSULATIONS**

### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building code@ (IBC)
- 2006 International Residential code@ (IRC)
- 2006 International Energy Conservation Code (IECC)
- Other Codes (see Section 8) Properties

evaluated:

- Surface-burning characteristics
- Physical properties
- Thermal resistance
  - Attic and crawl space installation
  - Air permeability
  - Vapor permeance

### 2.0 USES

Bayseal™ CC and Bayseal™ PP spray foam insulations are used as thermal insulating materials in Type V-B construction under the IBC and dwellings under the IRC. The insulations are for use in wall cavities, floor assemblies or ceiling assemblies, or attics and crawl spaces when installed in accordance with Section 4.0.

### 3.0 DESCRIPTION

#### 3.1 Bayseal™ CC and Bayseal™ PP Foam Plastic Insulation:

Bayseal™ CC and Bayseal™ PP spray foam insulations are medium-density polyurethane foam plastics intended to be installed as a component of floor/ceiling and wall assemblies. The materials are two-component, closed cell, one-to-one-by-volume spray foam with a nominal

in-place density of 1.9 pcf (30 kg/m<sup>3</sup>). The insulation is produced in

## ESR-2072\*

Issued March 1, 2009

This report is subject to re-examination in one year.

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the field by combining a polymeric isocyanate (A component) with a polymeric resin blend (B component). The insulation liquid components are supplied in nominally 55-gallon (208 L) drums and must be stored at temperatures between 65<sup>o</sup>F (18<sup>o</sup>C) and 85<sup>o</sup>F (29<sup>o</sup>C).

#### 3.2 Surface-burning Characteristics:

The insulation at a maximum thickness of 4 inches (102 mm) and a nominal density of 1.9 pcf (30 kg/m<sup>3</sup>) has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E 84. Greater thicknesses are recognized as described in Sections 4.3 and 4.4.

#### 3.3 Thermal Resistance (R-values):

The insulation has thermal resistance (R-value) at a mean temperature of 75<sup>o</sup>F (24<sup>o</sup>C) as shown in Table 1.

#### 3.4 Vapor Retarder:

The foam plastic has a vapor permeance of less than 1 perm (5.7x10<sup>-11</sup> kg/Pa-s-m) when applied at a minimum thickness of 1 inch (25.4 mm) and qualifies as a vapor retarder.

#### 3.5 Air Permeability:

Bayseal™ CC and Bayseal™ PP spray foam insulations are air-impermeable in accordance with Section R806.4 of the IRC based on testing in accordance with ASTM E 283.

#### 3.6 Bayseal™ IC Intumescent Coating:

Bayseal™ IC intumescent coating is a one-component, water-based polymer coating. Bayseal™ IC intumescent coating is supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums and has a shelf life of one year when stored in a factory-sealed container at temperatures of 50<sup>o</sup>F (10<sup>o</sup>C) or above.

#### 3.7 Flame Seal@ TB Intumescent Coating:

Flame Seal@ TB, manufactured by Flame Seal Products Inc., is a two-component, four-to-one-by-volume, liquid-applied, water-based polymer intumescent coating. The coating is supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums and has a shelf life of six months when stored in a factory-sealed container at temperatures between 40<sup>o</sup>F and 90<sup>o</sup>F (4<sup>o</sup>C and 32<sup>o</sup>C).

### 4.0 INSTALLATION

#### 4.1 General:

Bayseal™ CC and Bayseal™ PP spray foam insulations must be installed in accordance with the manufacturer's published installation instructions and this report. A copy of the manufacturer's published installation instructions must be available at all times on the jobsite during

for the type of construction required by the applicable code, and must be installed in a manner so the foam plastic insulation is not exposed. The insulation as described in this section may be installed in unvented attics in accordance with IRC Section R806.4.

\*Corrected April 2009

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installation.

4.2 Application:

The insulation is spray-applied on the jobsite using a volumetric positive displacement pump as identified in the Bayer Material Science application instructions. The insulation is used only in areas where maximum service temperature is equal to or less than 180° F (82 °C). The foam plastic must not be used in electrical outlet or junction boxes or in contact with water. The foam plastic must not be sprayed onto a substrate that is wet, or covered with frost or ice, loose scales, rust, oil, or grease.

The insulation may be applied at a maximum thickness of 3 inches (76 mm) per pass up to the maximum total thickness as specified in Sections 3.2, 4.3 and 4.4. Additional passes may be applied after ten minutes or more of curing time.

4.3 Thermal Barrier:

4.3.1 Application with a Prescriptive Thermal Barrier: Bayseal™ CC and Bayseal™ PP spray foam insulation must be separated from the interior of the building by an approved thermal barrier of 1/2-inch-thick (12.7 mm) gypsum wallboard or an equivalent 15-minute thermal barrier complying with, and installed in accordance with, IBC Section 2603.4 or IRC Section R314.4, as applicable. Thicknesses of up to 8 inches (203 mm) for wall cavities and 12 inches (305 mm) for ceiling cavities are recognized, based on room corner fire testing in accordance with NFPA 286.

4.3.2 Application without a Prescriptive Thermal Barrier: The prescribed 15-minute thermal barrier may be omitted when installation is in accordance with this section. The Bayseal closed cell insulation and Flame Seal TB system may be used in lieu of the prescribed 15-minute thermal barrier. The foam plastic insulation thickness must not exceed 6 inches (152 mm) in walls and ceilings, and the insulation must be covered with 18 dry mils (0.46 mm) of Flame Seal@ TB intumescent coating applied at a minimum rate of 1.6 gallons (6 L) per 100 square feet (9.3

m). The substrate must be dry, clean and free of dirt and loose debris or other substances that could interfere with the adhesion of the coating. Flame Seal@ TB may be applied by airless sprayer at ambient temperatures between 50° F and 115° F (10° C and 46° C) and relative humidity of less than 70 percent.

4.4 Attics and Crawl Spaces:

4.4.1 Application with a Prescriptive Ignition Barrier: When Bayseal™ CC and/or Bayseal™ PP insulation is installed within attics or crawl spaces where entry is made only for service of utilities, an ignition barrier must be installed in accordance with IBC Section 2603.4.1.6 or IRC Sections R314.5.3 and R314.5.4, as applicable. The ignition barrier must be consistent with the requirements

4.4.2 Application without a Prescriptive Ignition Barrier:

4.4.2.1 General: Where Bayseal™ CC and/or Bayseal™ PP insulation is installed without a prescriptive ignition barrier as described in Section 4.4.2.2 or 4.4.2.3, in attics and crawl spaces, the following conditions apply:

- Entry to the attic or crawl space is only to service utilities and heat-producing appliances are not permitted.
- There are no interconnected attic or crawl space areas. ■ Air in the attic or crawl space is not circulated to other parts of the building.
- Under-floor (crawl space) ventilation is provided in accordance with IBC Section 1203.3 or IRC Section R408.1, as applicable.
- Ventilation of the attic or crawl space is provided in accordance with applicable codes, except when air impermeable insulation is permitted in unvented attics in accordance with Section R806.4 of the IRC.

■ Combustion air must be provided in accordance with Section 701.4.2 of the 2006 International Mechanical Code' (MC).

4.4.2.2 Use with Bayseal™ IC intumescent Coating: Bayseal™ CC or Bayseal™ PP insulation may be spray-applied to the underside of roof sheathing and/or rafters, and the underside of wood floors and/or floor joists in crawl spaces as described in this section. The thickness of the foam plastic applied to the underside of the wood floor or roof sheathing must not exceed 7 inches (178 mm). The thickness of the spray foam insulation applied to vertical wall surfaces in attics and crawl spaces must not exceed 3.5 inches (89 mm). All foam plastic surfaces must be covered with 10 dry mils (0.25 mm) of Bayseal™ IC intumescent coating applied at a rate of 1.15 gallons (4.35 L) per 100 square feet (9.3 m²). Bayseal™ IC intumescent coating may be applied by brush, roller or airless sprayer at ambient temperatures between 50° F and 115° F (10° C and 46° C) and relative humidity of less than 75 percent. Surfaces to be coated must be dry, clean, and free of dirt, loose debris and any other substances that could interfere with adhesion of the coating. Bayseal™ CC and Bayseal™ PP insulation, as described in this section, may be installed in unvented attics in accordance with IRC Section R806.4.

4.4.2.3 Use with Flame Seal TB intumescent Coating: Bayseal™ CC or Bayseal™ PP insulation may be spray-applied to the underside of roof sheathing and/or rafters, and the underside of wood floors and/or floor joists in crawl spaces as described in this section. The foam plastic insulation thickness must not exceed 4 inches (102 mm) in walls and 7 inches (178 mm) in ceilings, and must be covered with 7 dry mils (0.18 mm) of Flame Seal@ TB

intumescent coating applied at a rate of 0.64 gallon (2.4 L) per 100 square feet (9.3 m<sup>2</sup>). The substrate must be dry, clean and free of dirt and loose debris or other substances that could interfere with the adhesion of the coating. Flame Seal@ TB may be applied by airless sprayer at ambient temperatures between 50 °F and 115°F (10°C and 46 °C) and relative humidity of less than 70 percent.

#### 4.4.3 Attic Floors:

4.4.3.1 Use on Attic Floors with Bayseal™ IC Intumescent Coating: Bayseal™ CC and Bayseal™ PP insulation may be installed at a maximum thickness of 7 inches (178 mm) between and over the joists in attic floors. All foam plastic surfaces must be covered with 10 dry mils (0.25 mm) of Bayseal™ IC intumescent coating applied at a rate of 1.15 gallons (4.35 L) per 100 square feet (9.3 m<sup>2</sup>). Bayseal™ IC intumescent coating may be applied by brush, roller or airless sprayer at ambient temperatures between 50 °F and 115°F (10°C and 46°C) and relative humidity of less than 75 percent. Surfaces to be coated must be dry, clean, and free of dirt, loose debris and any other substances that could interfere with adhesion of the coating. The insulation must be separated from the interior of the building (beneath the attic) by an approved thermal barrier. The ignition barrier in accordance with IBC Section 2603.4 and IRC Section R314.5.3 may be omitted.

4.4.3.2 Use on Attic Floors with Flame Seal@ TB Intumescent Coating: Bayseal™ CC and Bayseal™ PP insulation may be installed at a maximum thickness of 7 inches (178 mm) between and over the joists in attic floors.

All foam plastic surfaces must be covered with Flame Seal@ TB applied at a rate of 0.64 gallon (2.4 L) per 100 feet square (9.3 m<sup>2</sup>) for a wet film thickness of 10 mils (0.25 mm). The substrate must be dry, clean, and free of dirt and loose debris or other substances that COULD interfere with the adhesion of the coating. Flame Seal@ TB may be applied by airless sprayer at ambient temperatures between 50 °F and 115 °F (ICC and 46 °C) and relative humidity of less than 70 percent. The insulation must be separated from the interior of the building (beneath the attic) by an approved thermal barrier. The ignition barrier in accordance with IBC Section 2603.4 and IRC Section R314.5.3 may be omitted.

## 5.0 CONDITIONS OF USE

The Bayseal™ CC and Bayseal™ PP spray-applied foam plastic insulations described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The products must be installed in accordance with the manufacturer's published installation instructions, this evaluation report and the applicable code. The instructions within this report govern if there are any conflicts between the manufacturers' published installation instructions and this report.

5.2 The insulation must be separated from the interior of the building by an approved 15-minute thermal barrier, except when installation is as described in Sections 4.3.2 and 4.4.

5.3 The insulation must not exceed the thicknesses noted in Sections 3.2, 4.3 and 4.4 of this report.

5.4 The insulation must be protected from prolonged exposure to weather during and after application.

5.5 The insulation must be applied by contractors approved by Bayer MaterialScience, LLC,

5.6 Use of the insulation in areas where the probability of termite infestation is "very heavy" must be in accordance with IRC Section R320.5 or IBC Section 2603.8, as applicable.

5.7 The insulation has been evaluated only for use in Type V-B construction under the IBC and nonfire-resistance-rated assemblies in dwellings under the IRC.

5.8 Jobsite certification and labeling of the insulation must comply with IRC Sections N1101.4 and N1101.4.1 and [ECC Sections 102.1.1 and 102.1.11, as applicable.

5.9 Bayseal™ CC and Bayseal™ PP spray-applied foam insulations are produced by Bayer MaterialScience, LLC, in Phoenix, Arizona, and Spring, Texas, under a quality control program with inspections by Underwriters Laboratories Inc. (AA-668).

## 6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation (AC377), dated May 2008.

6.2 Reports of room corner tests in accordance with NFPA 286 and UL 1715.

6.3 Reports of crawl-space fire tests along with engineering fire risk evaluation.

6.4 Reports of ajr leakage tests in accordance with ASTM E 283.

## 7.0 IDENTIFICATION

Components for Bayseal™ CC and Bayseal™ PP sprayapplied foam plastic insulations are identified with the manufacturer's name (Bayer MaterialScience, LLC), address and telephone number; the product name (Bayseal™ CC or Bayseal™ PP); use instructions; the density; the flame-spread and smoke-development indices; the evaluation report number (ESR-2072); and the name of the inspection agency (Underwriters Laboratories Inc.)

Each pail of Bayseal™ IC intumescent coating is labeled with the manufacturer's name (Bayer MaterialScience, LLC) and address; the product name (Bayseal™ IC); and use instructions.

Each pail of Flame Seap TB intumescent coating is labeled with the manufacturer's name (Flame Seal Products Inc.) and address; the product name (Flame Seal@ TB); and use instructions.

## 8.0 OTHER CODES

### 8.1 Evaluation Scope:

The products recognized in this report have also been evaluated in accordance with the following codes:

- BOCA® National Building Code/1999 (BNBC) ■ 1999 Standard Building code® (SBC) ■ 1997 Uniform Building Code™ (UBC)

### 8.2 Uses:

--See Section 2.0.

### 8.3 Description:

See Section 3.0.

### 8.4 Installation:

8.4.1 General: See Section 4.1.

8.4.2 Application: See Section 4.2.

8.4.3 Thermal Barrier: See Section 4.3.1.

8.4.4 Application without a Prescriptive Ignition Barrier: See Section 4.4.2, except that combustion air must be provided in accordance with Section 703 of the SBC, Sections 701 and 703.1 of the UBC, and Chapter 10 of the BNBC, as applicable.

### 8.5 Conditions of Use:

The insulation described in this report complies with, or is a suitable alternative to what is specified in, those codes

listed in Section 8.1 of this report, subject to the conditions noted in Sections 5.1 through 5.9, except revise Section 5.6 to read as follows:

In jurisdictions adopting the SBC, use of the insulation system in areas where the probability of termite infestation is "very heavy" must be in accordance with SBC Section

2304.1.4.

8.6 Evidence Submitted: See

Section 6.0.

8.7 Identification:

See Section 7.0.

TABLE I—THERMAL RESISTANCE (R-VALUES)

THICKNESS (inches)	R-VALUE (°F.ft <sup>2</sup> .h/Btu)
ASTM C 518 TESTED VALUES	
3.5	24
CALCULATED R-VALUES <sup>1</sup>	
	48
7.5	52
	55
	62
10	69
11	76
12	83

For sr. 1 inch = 25.5 mm; 1 °F.ft<sup>2</sup>.h/Btu = 0.176 110<sup>0</sup> K.m<sup>2</sup>/W.

<sup>1</sup> Calculated R-values are based on tested K values at a 3.5-inch thickness.



# Bayseal™ CC

## Bayer MaterialScience

Div. 7-Thermal and Moisture Protection  
 Closed-Cell insulation  
 Technical Datasheet: 06/10/08

### Product Description Environmental

Bayseal CC closed-cell spray applied polyurethane foam is a two system designed for commercial. Applicators must recognize and anticipate applications. application to ensure highest quality foam and to maximize yield. critical Closed-cell' polyurethane foam yields a high R-value and minimizes air temperature moisture infiltration. The spray applied nature of Bayseal SPF directly affecting for tremendous sealing properties which contributes to of the foam insulation. workplaces. The rigid nature of Bayseal CC increases applied to substrates integrity resulting in more durable structures. Bayseal CC F and 120° F. All application to provide increased performance values by oil and moisture envelope. prior to the application of Bayseal CC. Moisture in chemically will adversely affect The Bayseal CC system is comprised of an properties. Application should diisocyanate manufactured by Bayer temperature is within 5°F of the dew point. component which includes polyols, excess of with 12 the miles mixing per hour efficiency may result of the in

ozone depleting blowing agents. foam surface texture, cure, physical properties

Precautions must be taken to prevent damage to adjacent areas from fugitive

- Walls
- Unvented Attics
- Ceilings
- FloorS
- Vented Attics
- Piping<sup>0</sup>
- Unvented Crawl Spaces
- Vented Crawl Spaces
- Foundationsbe maintained
- Concrete Slabs
- Ducts
- Tankstank storage may be necessary. Material
- Cold Storage
- Freezers
- Coolers

### Consideration and

component, Substrate Temperatures medium-density, structural insulation climatic conditions prior to residential, and industrial Ambient air and substrate temperatures, moisture, and wind velocity are all anddeterminants of foam quality. Extreme ambient air and substrate systems allowswill influence the chemical reaction of the two components, healthier homes andthe yield, adhesion and the resultant physical properties overall structuralTo obtain optimum results, Bayseaf CC should be spray- expands duringwhen ambient air and surface temperatures are between 50° sealing the buildingsubstrates to be sprayed must be free of dirt, soil, grease, any form: excessive humidity (>85%R.H.) rain, fog, or ice will react "A" component or aromaticsystem performance and corresponding physical MaterialScience, and a blended "B"not take place when the ambient fire retarding materials, catalysts and non"Wind velocities and in interfere spray excessive gun affectingloss

of exotherm and will cause overspray. Recommended Usesoverspray.

### Processing Parameters

Store at 65° to 85F in a dry and well-ventilated area. Material in containers should at 65°F to 75°F while in use. Heated trailers, hotboxes, or heated temperaWre should be confirmed with a thermometer or R gun. (continued)

### Typical Physical Properties

Properties	Test Method	Value
Fungi ResEälca•	ASIMe. 21	Zen Rdlg
	ASTM C-518	6.9 per inch
R-13 at 1.9 inches		6.9 p«hdl
R-19 at 2.75 inches		24 at3.5 indies
		37.8d5fiahæ
		54.3 at 7.9 indnes
Sound Trmsmission Coe%ent	ASTM E-90-85/E413	43 (STC)
Ndse Reduction Coefficient	ASTM C.423	0.2 (NRC)

### Processing Paranætets & Physica{ Ohaæteristit\$

		Pre-heater Temperature:
"A" and		125135°F
Hose Tempaatute:		"A" and 13135°F
Pressures:		1000-1400 psi (dynamic)*
Mix Rafio:		1 to 1 by vdume "R to "B"
Compressive Strength:	ASTM D-1621	15-20 psi
Core Density:	ASTM D-1622	1.9 - 2.2 lbs./ft³
Closed Cell Content:	ASTM D-2856	>92%
Tensile Strength:	ASTM D-1623	55 - 65 psi
Moisture Vapor Transmission (permeance):	ASTM E-96	0.80 Perms at 1"
		0.23Pams 3.5"
		0.14Parsd55
Viscosity at 75°F:	400-500	"B" Component

### Product Reactivity

Surfae T3Tnpa-aWre: 5c1200F

55-65

Cure Time at 75°F:

28 seconds

Tad(FreeTmeat750F:

78 seconds .

Cure Time at 75°F: 4 hrs

0.10 Permsat 7.g'

Dimensional Stability:

ASTM D-2126

(7 days at 150°F, 95/R)

%genML.pon rose Engal

% Change in Volume 6%

Ar I-edge R.æ:

ASIME-283

0.00±0.01 (L)sym<sup>2</sup>

Test values were generated from laboratory samples and actual properties may vary with equipment and application conditions..

# Bayseal™ CC

## Credentials/Certifications

Bayseal CC is a Class I formulation, as set forth under Underwriters Laboratories ASTM E-84 (UL 7231 NFPA 255, UBC Standard 8-1).

## Processing Equipment (continued)

2:1 transfer pumps are recommended for material transfer from container to the proportioner.

The plural component proportioner must be capable of supplying each component within ± 2% of the desired 1:1 mix ratio by volume. Hose heaters should be set to deliver 125°F to 135°F materials to the spray gun. These settings will ensure thorough mixing in the spray gun mix chamber in typical applications. Optimum hose pressure and temperature will vary with equipment type and condition, ambient and substrate conditions, and the specific application. Some equipment may require you to heat drums to achieve optimum material temperature. It is the responsibility of the applicator to properly interpret equipment technical literature particularly information that relates acceptable combinations of gun chamber size, proportioner output, and material pressures. The relationship between proper chamber size and the capacity of the proportioner/pre-heater is critical. Contact your local BaySystems representative for specific recommendations, pricing, and availability of spray and auxiliary equipment.

**CAUTION:** Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the "A" and "B" components.

## Thermal Barrier

IRC and IBC codes require that SPF be separated from the interior of a building by an approved fifteen (15) minute thermal barrier, such as 1 1/2" gypsum wall board or equivalent, installed per manufacturers instructions and corresponding code requirements. There are exceptions to the thermal barrier requirement: 1. Code authorities may approve coverings based on fire tests specific to the

SPF application. For example, covering systems that successfully pass large scale tests may be approved by code authorities in lieu of a thermal barrier; (2) SPF protected by 1" thick masonry does not need a thermal barrier. Certain materials that offer protection from ignition, called "ignition barriers," with NFPA may not be considered as thermal barrier alternatives unless they comply 286. Applicators should request test data and code body approvals or other written indications of acceptability under the code to be sure that the product selected offers code-compliant protection.

Applicators should ensure the safety of that the all onsite and construction personnel by posting appropriate signs warning "hot work" such as welding, soldering, and cutting with torches should take place no less than 35 feet from any exposed foam. IV "hot work" must be performed all spray polyurethane foam should be covered with an appropriate fire or welders blanket, and a fire watch should be provided.

## Vapor Retarder

Bayseal CC qualifies as a vapor retarder as defined by the International Code Council and ASHRAE (class at a minimum thickness of 1 inch. Building construction types a. Persistent, high moisture drive require additional moisture remediation, as local building codes dictate. This is in humid climate zones 5 and higher in the U.S., as defined in 2004 protection is MANDATORY! Contact Bayer MaterialScience Model Respiratory Protection Program developed by API or Supplement to the IRO, Table N101.2.

## Per Pass Application

Applicators should limit Bayseal CC thickness to 3" per pass for optimal processing and physical properties. Second passes if necessary should be applied after 10 minutes of cure time. If additional passes are needed, applicators should wait 30 minutes between passes for optimal foam processing.

Respiratory Kit copy of their website at www.poiyurethane.org. Avoid contact with skin, eyes, and clothing. Open containers carefully, allowing any pressure to be relieved slowly and safely. Wear chemical safety goggles and rubber gloves when handling or working with these materials. In case of eye contact, immediately flush with large amounts of water for at least fifteen minutes, consult a physician immediately. In case of skin contact wash area with soap and water. Wash clothes before reuse.

## Fire Hazard

Fires involving either of these components may be extinguished with carbon dioxide, dry chemical, or inert gas. Application of large quantities of water

## Surface Burning Characteristics

### ASTM Method E84 (UL 723)

	Class I
Flame Spread	≤25
Smoke Development	≤450
Nominal Thickness (Inches)	4.0

**NOTE:**  
The flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

spray is recommended for spill fires. Personnel fighting the fire must be equipped with NIOSH approved self-contained breathing apparatus.

## Cleaning of Spills or Leakage

Cover the area with an inert absorbent material such as clay or vermiculite and transfer to metal waste containers. Saturate with water but do not seal the container with the isocyanates and water mixture. The area should then be flushed with large amounts of water, in the case of the "B" component, or a 5% aqueous ammonia, in the case of the "A" component. Dispose of these materials in compliance with federal, state and local regulations.

**Caution:** Isocyanates will react with water and generate carbon dioxide. This could result in rupture of closed containers.

## Disclaimer

The data presented herein is not intended for use by nonprofessional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the products performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

All guarantees and warranties as to products supplied by Bayer MaterialScience shall have only those guarantees and warranties expressed by the manufacturer. The buyers sole remedy as to any material claims will be against the manufacturer of the product. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. **NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE BY Bayer MaterialScience WITH RESPECT TO PRODUCTS OR INFORMATION SET FORTH HEREIN.** Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent or a license from the owner of the patent. Accordingly, buyer assumes all risks whatsoever as to the use of these materials and buyers exclusive remedy as to any breach of warranty, negligence, or other claim shall be limited to the purchase price of the materials. Failure to adhere to any recommended procedures shall relieve Bayer MaterialScience and the manufacturer of all liability with respect to the materials and their use thereof.

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Phoenix, AZ

Handline and Safety

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i.aeo.22\*-3626

1.80@.289.8272

baysystemsspray.com

Tel 281.359.9900

To 1602.269.97%

Fax 281.359.9900

8

Fax 602.269.9215



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East Office  
240C Sping Stuebner Road

West Office  
PO Box 6460