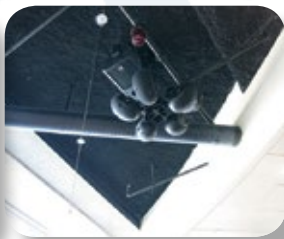


**monoglass**  
Incorporated

**SPRAY-ON INSULATION PRODUCTS**

**INSULATING YOUR WORLD  
SINCE 1979**



**[www.monoglass.com](http://www.monoglass.com)**

**COMMERCIAL**

**RESIDENTIAL**

**SPORTS FACILITIES**

**INDUSTRIAL**

**MARINE**



## SPRAY-APPLIED INSULATION

Monoglass® Spray-On is an engineered product specifically designed as a thermal and acoustic insulation material for a wide variety of applications within the construction industry. Monoglass® is suitable for use in multi-tenancy residences, airports, theaters, auditoriums, churches, schools, metal buildings, swimming pools, hospitals and office buildings.

Monoglass® Spray-On is applied by trained applicators using approved equipment, ensuring quality control and continuity.



*New Viking Stadium (MMPS), Minneapolis. Irregular surfaces easily insulated with Monoglass Spray-On*

Since its development in 1979, Monoglass® Spray-On has become one of the leading spray-applied glass fiber insulations world wide, providing superior thermal/acoustic performance than previously available.

### SAFE

Monoglass® Spray-On, made from a minimum of 25% re-cycled glass, is non-toxic, odorless, and naturally bright white for higher light-reflectance. Monoglass® is a non-combustible product, eliminating the concerns and disadvantages of combustible cellular plastic, cellulose or foam insulations. Monoglass® Spray-On complies with the California Dept. of Public Health CDHP Standard Method 1.1 requirement for low emitting materials for use in schools and offices.



### VERSATILE

Monoglass® Spray-On allows for flexibility and freedom of design, providing options previously unavailable to the architect. Monoglass® bonds easily to concrete, wood, steel, gypsum, rigid fiberglass and plastic insulations. The pneumatic application creates a monolithic, carpet-like texture which can be adapted to meet various surface finish requirements.



*St. Luke's Hospital, Houston, Texas*

### COMPETITIVE

Monoglass® Spray-On is installed to a lower density than competitive products thereby reducing installed weight. As a result, high thermal values (R-20/R.S.I. 3.5 on horizontal surfaces, R-28/R.S.I. 4.9 on vertical surfaces) can be achieved without expensive mechanical support or multi-layer applications. Construction time and costs are reduced with economical, clean and fast installation.



*Acoustic Spray-On Application*

*Non-combustible Monoglass applied over fireproofing, University of California*

### EFFECTIVE

Monoglass® Spray-On combines inorganic glass fiber with low VOC polymer adhesives for a one-pass spray application to any surface configuration. The monolithic application becomes part of the building structure, producing a more effective system which resists heat passage, air leakage and moisture migration. Proven performance, longevity and competitive pricing makes Monoglass® the choice of architects, builders and building owners.



## THERMAL PROPERTIES

Monoglass® Spray-on has one of the highest R-Values per inch available in a spray applied fiber product. At R-4.0/RSI 0.7 per inch, installations of R-20/RSI 3.5 (overhead) are achieved with only 5 inches of product, with no mechanical support required. Wall applications can be applied to R-28/RSI 4.9 quickly and easily without meshing.

## FIRE HAZARD CLASSIFICATION

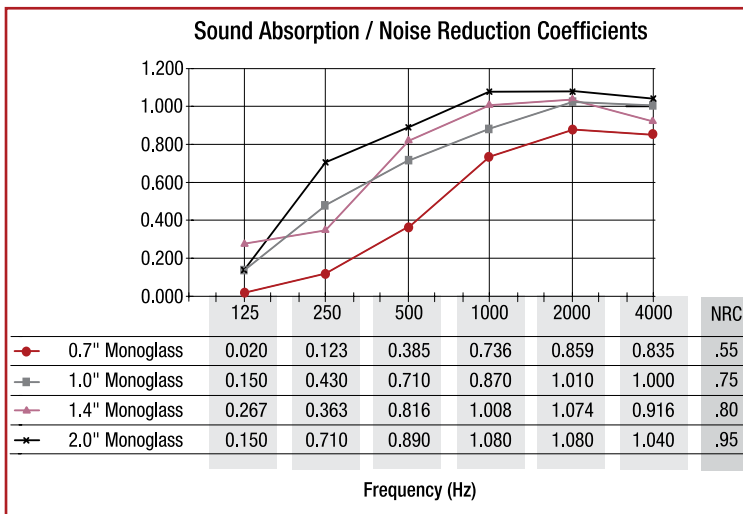
Monoglass® is non-combustible and inorganic, and will not provide assistance to the build-up of fire. Monoglass® Spray-On meets Code requirements for non-combustibility and use in multi-story, multi-tenancy, high population density structures. Monoglass® is approved for use over spray-applied fireproofing materials without affecting fire ratings.

## ACOUSTICAL PERFORMANCE

Monoglass® Spray-On provides high Noise Reduction Coefficients to control airborne noise within our living and working environments. Monoglass' high Sound Transmission Coefficient values control sound levels between spaces in multi-tenancy buildings, hotels, offices, condominiums and townhouses.

## CONDENSATION CONTROL

Monoglass® combined with proper ventilation, can help solve condensation problems. The monolithic application eliminates dead air spaces which can lead to condensation formation, and covers internal projections in conjunction with exterior claddings to minimize cold and heat transmission.



Acoustic ceiling application, A.E. Wood Coliseum, Clinton, MS



Soffit application to insulate occupied space above



Test Standard	Test	Requirement	Result
Thermal Resistance	ASTM C-518	Report Value	RSI = 28.12 m <sup>2</sup> K/W R = 4.00 F <sup>2</sup> ft <sup>2</sup> hr/BTU inch
Thermal Conductance	ASTM C-518	Report Value	KSI = 0.036 W/(m <sup>2</sup> k) K = 0.25 BTU*inch/(ft <sup>2</sup> hr*F)
Noise Reduction Coefficient	ASTM C-423/ISO 354	Report Value	NRC 0.55 @ 0.7"/17mm    NRC 0.75 @ 1"/25mm NRC 0.80 @ 1.4"/35mm    NRC 0.95 @ 2"/50mm
Non-Combustibility	CAN S114, ASTM E-136	Non-Combustible	Non-Combustible
Surface Burning Characteristics	ASTM E-84 CAN S102	Flame Spread < 25 Smoke Developed < 50	Flame Spread = 0 Smoke Developed = 0
Smolder Resistance	ULC-C723(S)	Mass Loss < 5.0%	Mass Loss 0.37%
Air Erosion	ASTM E-859	Report Value	No Weight Loss
Wind Tunnel Test*	ASTM D3161	No Detectable Damage	No Damage or Loss of Material
Fungal Bacterial Resistance	ASTM G-21 & MIL STD810F	No Growth of Fungi	No Growth of Fungi or Bacteria

\*Wind Tunnel test data to a modified, non-standard application of Monoglass. Contact Monoglass Inc. for complete information.



## SPRAY-APPLIED ACOUSTIC TREATMENT

Sonoglass® is a fiberglass based, spray applied acoustical treatment designed to provide superior acoustical values with a finished appearance. Sonoglass® will adhere to almost any surface configuration. This makes it ideal for applications to curved and irregular shaped ceilings such as those found in churches, gymnasiums and theaters. With only a thin application of Sonoglass®, noise reverberation times can be greatly reduced, improving audibility and comfort at a reasonable cost.



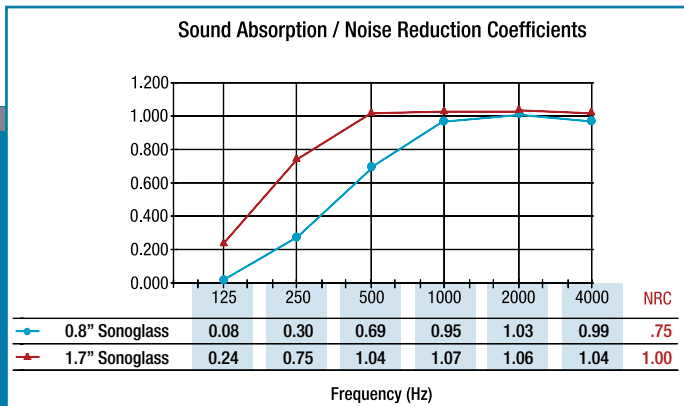
Gray tinted Sonoglass - applied with our color spray tints

Sonoglass® has been tested to the following standards:

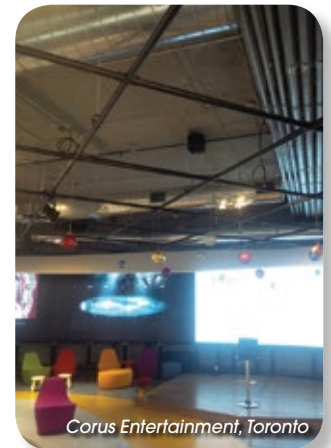
Property	Test Method	Result
Noise Reduction Coefficient	ASTM C-423	NRC 0.75 @ 0.8"/20mm NRC 1.0 @ 1.7"/43mm
Thermal Resistance	ASTM C-518	R-3.733 F*ft <sup>2</sup> *hr/BTU inch
Thermal Conductance	ASTM C-518	K=0.268 BTU*in/(ft <sup>2</sup> *hr*F)
Non-Combustibility	ASTM E-136	Non-Combustible
Surface Burning Characteristics	ASTM E-84	Flame Spread = 0 Smoke Developed = 0
Air Erosion	ASTM E-859	0.11 grams
Fungal Resistance	MIL STD 810F	0 Mold Growth

For projects requiring a finished appearance and superior NRC values, Sonoglass is the perfect choice.

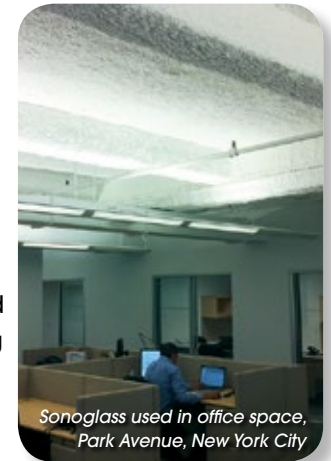
For areas that require extra durability Sonoglass can be protected with our INSULSEAL Protective Coating. INSULSEAL provides a resilient finish for areas where occasional physical contact may occur, and is a great choice for gymnasiums and schools. Best of all, tests show that when INSULSEAL is applied in a moderate thickness, the NRC ratings of Sonoglass are not affected.



- Flatter more uniform finish than standard spray-applied acoustic insulation products
- More economical than many cellulose-based acoustic finishes
- Improved noise reduction capabilities
- Less material required for effective sound control
- Zero Flame Spread and non-combustible for safety
- Adds to thermal value with R-3.733 / inch
- Can be tinted or painted
- Conforms to virtually any surface configuration
- Contains a minimum of 25% recycled material
- Low VOC content: Complies with California Dept. of Public Health CDHP Standard Method V 1.1 for low emitting materials
- Does not support mold growth



Corus Entertainment, Toronto



Sonoglass used in office space, Park Avenue, New York City

**For projects requiring a finished appearance and superior NRC values, Sonoglass is the perfect choice.**

# Insulseal

## PROTECTIVE COATING FOR THERMAL/ACOUSTIC INSULATIONS

For areas that require extra durability Monoglass products can be protected with our INSULSEAL Protective Coating. INSULSEAL provides a resilient finish for areas where occasional physical contact may occur, and is a great choice for gymnasiums and schools. Best of all, tests show that when INSULSEAL is applied in a moderate thickness, the NRC ratings of Monoglass products are not affected.



### BASIC USE

Insulseal is intended for use as a protective coating over Monoglass Spray-On Insulation or Sonoglass in residential and commercial construction. Insulseal helps prevent damage to sprayed insulation from personnel, machinery, and other sources. Insulseal provides a tough, flexible coating which encapsulates surface fibers and resists abrasion. It is spray applied using airless spray equipment. It can be used over wall or ceiling applications.



### COLORS

Insulseal is available in white, black and gray.

### COMPOSITION AND MATERIALS

Insulseal is a water soluble liquid copoly emulsion. It is non-hazardous and is not regulated as a health or environmental hazard. It cleans up with soap and water while wet.

Tested to ASTM E-84: Flame Spread Rating = 0, Smoke Development Rating = 0.

### TECHNICAL ASSISTANCE

Please contact Monoglass Incorporated or your local Monoglass Agent for technical assistance, complete product literature and material safety data sheets on this product.

### APPLICATIONS

Insulseal is spray applied to Monoglass or Sonoglass insulation that has been board tamped flat and over-sprayed with standard adhesive for a smoother application. Insulseal can be applied to virtually any surface configuration in varying coverage levels to achieve the amount of protection and surface coverage required.



**Monoglass® Incorporated**

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**Vancouver, BC, Canada V6P 6G5**

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**Fax: 604.261.1342**

**Web: [www.monoglass.com](http://www.monoglass.com) • Email: [sales@monoglass.com](mailto:sales@monoglass.com)**

## SPRAY APPLIED INSULATIONS AND LEED

Throughout the Construction Industry and society as a whole there is a growing emphasis on the overall LEED rating of a project. Our spray applied insulations can contribute to LEED points on your project in many ways.

- Minimum 25% recycled content
- Low VOC content: Our insulations comply with California Dept. of Public Health CDHP Standard Method 1.1 requirement for low emitting materials for use in schools and offices.
- Rapidly renewable resource
- Recyclable packaging
- Reduces energy needs

### AIA Continuing Education Credits are available through our on-line course.

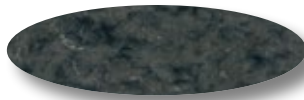
Learn more about spray applied insulations and their uses. Connect to the course through our website [www.monoglass.com](http://www.monoglass.com)



## COLOR SPRAY TINTS



Tinted Gray



Tinted Charcoal



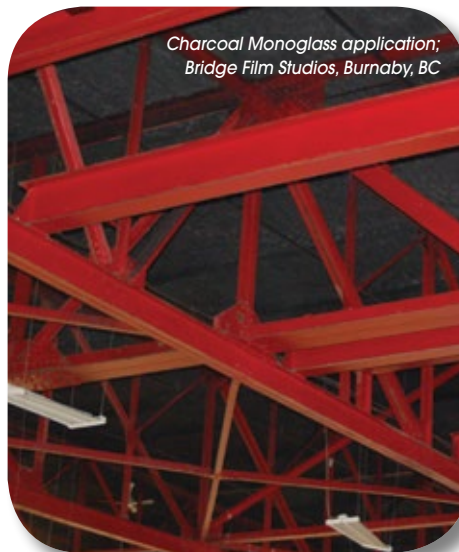
Un-tinted Standard White

Color Spray Tints are available in two shades; gray and charcoal. These can be added to the Bonding Adhesives used to install our standard white Monoglass and Sonoglass insulations, allowing installers to achieve tinted finishes without spray painting.

Perfect for use in, theaters, night clubs, gymnasiums, restaurants and film studios. Tinted applications give an attractive finish and excellent thermal and acoustic insulation performance all in one product.

Our insulations can also be painted custom colors with latex paint to meet design requirements, while providing the added safety of a non-combustible product, which never needs to be treated with fire retardant chemicals, unlike cellulose insulations.

Please contact us for tint pricing and application requirements.



(Top & bottom) Gray Monoglass application; Ohio State University Stadium



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