



# TECHNICAL DATA SHEET

I. S. BASE™

High Performance, Acrylic-Modified Base Coat  
for the Infinity System  
DS461

## Description

I. S. Base is an acrylic-modified product, which is field mixed 2 to 1 by weight with Portland cement to produce the I. S. Base mixture.

## Uses

The I. S. Base mixture is used to embed I. S. Reinforcing mesh as part of the base coat of the Dryvit Infinity® System.

## Coverage

Approximately 140-160 ft<sup>2</sup> (13-14.9 m<sup>2</sup>) of surface area per 60 lb (27 kg) pail.

## Properties

**Working Time** - After mixing, the working time of the I. S. Base mixture is approximately 1 hour depending on ambient conditions. **Drying Time** - Drying time of the I. S. Base mixture is dependent on the air temperature and relative humidity. Under average drying conditions [70°F (21°C), 55% R. H.], the I.S. Base mixture will dry in 24 hours. Protect work from rain for at least 24 hours.

## Testing Information

For individual test data on this product's properties, refer to the chart included with this document.

## Application Procedure

For complete application instructions, refer to the Infinity application instructions (DS145).

**Job Conditions** - Air and surface temperature for application of the I. S. Base mixture must be 40°F (4°C) or higher and must remain so for a minimum of 24 hours.

**Temporary Protection** - Shall be provided at all times until the adhesive, base coat, finish, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

## Surface Preparation

Expanded polystyrene insulation board surfaces must be above 40°F (4°C) and must be clean and dry.

**Mixing** - Thoroughly premix the I. S. Base material. Into a clean plastic container, pour 1/2 of the freshly mixed I.S. Base 30 lb (13.5 kg). To each half pail of I.S. Base, add 15 lb (6.8 kg) of fresh, lump free Type I or Type II Portland cement. Add cement slowly while mixing using a "Twister" paddle or equivalent mixing blade, powered by a 1/2 in (12.7 mm) drill, at 500-1200 rpm. NOTE: A minimum of 7 amp drill works best for Portland cement based materials. Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water. Allow the mixture to set for a minimum of 5 minutes then retemper, adding a small amount of water, if necessary. Material must be free of lumps before using.

**Application** - All insulation board irregularities greater than 1/16 in (1.6 mm) must be sanded flush. Apply the I.S. Base mixture to the entire surface of the insulation board. Fully embed the I.S. Reinforcing mesh in the wet base coat troweling from the center to the edge of the reinforcing mesh so as to avoid wrinkles. The reinforcing mesh

shall be continuous at all corners and lapped or butted in accordance with Dryvit's recommendations. The overall minimum base coat thickness shall be sufficient to fully embed the reinforcing mesh. The recommended method is to apply the base coat in two applications. All areas requiring higher impact resistance shall be detailed on the plans and described in the contract documents. The products shall be installed in accordance with Dryvit's recommendations.

**Clean Up** - Clean tools with water while the I. S. Base mixture is still wet.

## Storage

I. S. Base must be stored at a minimum of 40°F (4°C) and maximum of 100°F (38°C) in tightly sealed containers protected from weather and out of direct sunlight.

## Cautions and Limitations

1. Avoid applying I.S. Base in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
2. Clean potable water may be added to adjust workability. Do not add water until after the cement is thoroughly mixed. Do not overwater.
3. Use only Type I or Type II, grey or white, Portland cement.
4. Do not use I.S. Base mixture as an adhesive.

## Technical and Field Services

Available on request.

## FINISH TESTING

TEST	TEST METHOD	CRITERIA	RESULTS <sup>2</sup>
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	3 Perms
Accelerated Weathering	ASTM G 153 Cycle 1 (Carbon Arc)	2000 hours: No deleterious effects <sup>1</sup>	2000 hours: No deleterious effects <sup>1</sup>
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects <sup>1</sup>	60 cycles: No deleterious effects <sup>1</sup>
	ASTM E 2485/ICC-ES Proc.; ICC ES (AC219*)	No deleterious effects <sup>1</sup> after 10 cycles	Passed – No deleterious effects <sup>1</sup> after 10 cycles
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects <sup>1</sup>	14 days: No deleterious effects <sup>1</sup>
Tensile Bond <sup>2</sup>	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001: Minimum 15 psi (104 kPa) – substrate or insulation failure	>15 psi (104 kPa)
Transverse Wind Load	ASTM E 330	Wall assembly shall withstand positive and negative wind loads as specified by the building code	Minimum 90 psf (4.3 kPa) <sup>3</sup> 16 inch o.c. framing, 1/2 in sheathing screws attached at 8 in (203 mm) o.c.
Water Penetration	ASTM E 331	No water penetration beyond the inner-most plane of the wall after 15 minutes at 2.86 psf (137 Pa)	Passed
Fire Resistance	ASTM E 119	No effect on the fire resistance of a rated wall assembly	Passed 1 hour.
Ignitability	NFPA 268	No ignition at 12.5 kw/m <sup>2</sup> at 20 minutes	Passed
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	<ol style="list-style-type: none"> <li>1. Resist flame propagation over the exterior surface</li> <li>2. Resist vertical spread of flame within combustible core/component of panel from one story to the next</li> <li>3. Resist vertical spread of flame over the interior surface from one story to the next</li> <li>4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces</li> </ol>	Passed

1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.  
 2. Sample consists of 1" EPS adhered to various substrates  
 3. All Dryvit components remain intact – for higher wind loads contact Dryvit Systems, Inc.  
 \* AC219 – Acceptance Criteria for EIFS

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Printed in USA. Issued 10-04-16  
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February 2022/DS461

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