

SUBMITTAL RECORD \_\_\_\_\_  
 JOB \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 SUBMITTED TO \_\_\_\_\_  
 SUBMITTAL PREPARED BY \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_  
 DATE \_\_\_\_\_



# Submittal Form WITM Water Based Insulation Adhesive

## DESCRIPTION

Duct liner is typically attached to duct walls by two fastening methods; one with mechanical fasteners and the other with adhesive. Mechanical fasteners are utilized to prevent delamination of the liner while adhesives bond the liner to the metal ensuring that air flow can not intrude between the two materials. The choice of an adhesive is affected by several factors some of which are; the method of application, acceptable dry time, solvent type.

Duro Dyne WITM is a non-flammable water-based duct liner adhesive specifically formulated for spray, brush and roller coating application. WITM may be used for bonding low and high density duct liner or wrap to the interior or exterior of metal ductwork. Duro Dyne WITM is formulated to work with Duro Dyne adhesive application equipment i.e. GBAC, Super Sprayfast, Mini-Sprayfast and Rollabond.

## FEATURES

- Water based
- Non-Flammable, wet or dry
- Can be applied by spray, brush or roller
- Fast tacking
- Meets LEED requirements for credit EQ 4.1

## Meets ANSI/UL 723 (ASTM E84)

## TYPICAL PROPERTIES

**Type:** Resin Emulsion  
**Weight:** 9.2 lbs./gal.  
**Color:** White  
**Odor:** Bland  
**VOC:** 0 gms./ltr  
**Viscosity:** #4 at 6RPM RVT., 5500 to 6500 CPS  
**Flammability:** Wet: Non-Flammable  
**Effect of Freezing:** Protect from freezing  
**Storage Life:** 6 Months at 70°F  
**Coverage:** Up to 400 sq. ft. / gal depending on application  
**Bonding Time:** 0 to 17 minutes, depending on temperature, humidity and film thickness  
**Clean With:** Wet: Clean, fresh water; Dry: Hot, soapy water or chlorinated solvent  
**Method of Application:** Designed for use with spray equipment or Duro Dyne Roto Bonder. As a general practice, it is advisable that liquid products be stirred before use.  
**Service Temperature:** -20° to 180 °F (-20° to 82°C)



File: R39563

Underwriters Laboratories, Inc.  
 Classified Adhesive 327U

Flame Spread 5  
 Smoke Developed 5

## RELATED SMACNA RECOMMENDATIONS\*

### 7.4 Installation Standards For Rectangular Ducts Using Flexible Liner

**S2.3 Each layer of duct liner shall be attached with 90 percent coverage of adhesive at the liner contact surface area.**

**S2.4 All transversely oriented edges of liner not receiving metal nosing shall be coated with adhesive. Liner shall be neatly butted without gaps at transverse joints and shall be coated with adhesive at such joints before butting.**

**S2.6 Ducts with interior widths of 8 in. (203 mm) or less do not require mechanical fasteners in addition to adhesive.**

*\*From SMACNA HVAC Duct Construction Standards Metal and Flexible • Third Edition • 2005*

## RELATED CODES

**Is Designed To Meet:** NFPA 90 A & B

ASTM C916, Type 1

**Is Designed To Conform To:** NFPA 90A & 90B for insulation adhesives

**Qualifies For:** LEED-NC EQ 4.1 points

ITEM#	CODE	DESCRIPTION
5160	WIT1M	WITM - 1 Gallon Pail
5161	WIT5M	WITM - 5 Gallon Pail
5162	WIT55M	WITM - 55 Gallon Drum

**IMPORTANT! STIR WELL BEFORE USE!**  
 Especially in colder climates, to prevent spray pump from clogging due to material settling.

## SUGGESTED SPECIFICATIONS

All metal duct shall be lined according to SMACNA HVAC Duct Construction Standard. Each layer of duct liner shall be attached with 90% coverage of adhesive at the liner contact surface area. Adhesive shall be UL classified for surface burning characteristics and be water based. Adhesive shall be WITM as manufactured by Duro Dyne Corporation.



©2019 DURO DYNE CORP.  
 Printed in the USA 4/19  
 BO005444

Duro Dyne East Division, Bay Shore, NY	631-249-9000	Fax: 631-249-8346
Duro Dyne Midwest Division, Hamilton, OH	513-870-6000	Fax: 513-870-6005
Duro Dyne West Division, Fontana, CA	562-926-1774	Fax: 562-926-5778
Duro Dyne Canada, Lachine, Quebec, Canada	514-422-9760	Fax: 514-636-0328
www.durodyne.com E-mail: durodyne@durodyne.com		