



TECHNICAL DATA SHEET



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DESCRIPTION

OSI® TeQ::Foam™ is a single component, minimal expansion and low pressure polyurethane foam packaged in a pressurized metal container. It is specifically designed for use with the WINTeQ™ Window Installation System. It is dispensed in bead form for sealing gaps and cracks, holes and voids around windows and doors, in most types of construction projects. The product exhibits slight to moderate expansion during application and cures upon reaction with moisture to form a flexible, urethane foam. The closed cell structure of this material provides an R factor of 5 per inch of cured foam making it an efficient method for stopping air and moisture infiltration and expensive warm and cold air loss between windows and rough frame. TeQ::Foam™ is a low pressure, minimal expansion foam that will not warp or deform windows and doors. TeQ::Foam™ adheres to all types of building materials including wood, concrete, and drywall and is compatible with asphalt and butyl flexible flashing. TeQ::Foam™ complies with all Federal and State VOC regulations.

RECOMMENDED USES:

TeQ::Foam™ is part of the WINTeQ™ Window Installation System and is used to insulate and seal around windows and door frames. It can also be used for jambs, mud sills, header joints, corner joints, top plate penetrations, electrical and plumbing penetrations and other areas where air infiltration or heat loss may occur.

LIMITATIONS:

- TeQ::Foam™ is not a fire stopping material and SHOULD NOT be used in areas that require fireproof or fire stopping materials
- Urethane foams are adversely affected by sunlight (Ultraviolet light). Exposed foam must be coated with a protective coating.

FEATURES & BENEFITS:

Feature	Benefits
Third Party Certification.....	GreenGuard® Certified for Children and Schools
Low foam pressure / expansion.....	Will not warp or deform windows and doors
Quick setting formulation.....	Can be cut or trimmed in less than 1 hour
Closed cell foam structure.....	Will not absorb moisture; Provides an R factor of 5 per inch of cured foam
Remains flexible.....	Will not crack out over time
Part of a complete Window Installation System.....	WINTeQ™ is the first complete & fully compatible window installation system



Item #	Packaging	Size
1443841	Pressurized Metal Can	22.25 oz.

COVERAGE

- A 1/4" (6.3 mm) bead size will deliver approximately 5912 ft. (1801 m) of foam.
- A 3/8" (9.6 mm) bead size will deliver approximately 2626 ft. (800 m) of foam.
- A 1/2" (12.7 mm) bead size will deliver approximately 1477 ft. (450 m) of foam.

Please note: Yields shown are based on theoretical calculations, for comparison purposes, and will vary depending on ambient conditions and particular application.

DIRECTIONS

Tools Typically Required:

OSI® WINTeQ™ TeQ::Foam Gun™ (IDH # 1413066), OSI® WINTeQ™ TeQ::Clean™ Foam & Applicator Cleaner (IDH # 1427512), and utility knife.

Safety Precautions:

Wear eye protection and gloves. Wash hands after use. Cured foam is difficult to remove from skin, clothing and other substrates. It may discolor skin.

Preparation:

Read all operating instructions packaged with the dispensing unit before using. All surfaces must be free of dust, dirt, oil and other foreign materials. Cover surfaces not intended to be foamed as cured foam is difficult to remove. The temperature of the product, the surfaces and the working area must be above 32°F (0°C). For best performance, containers should be kept at 65°F (18°C) to 80°F (27°C). Shake can well before use.

Application:

Using the OSI® WINTeQ™ TeQ::Foam Gun™ perimeter seal around window, doors and rough openings. Fill the gap to approximately 70-80%. Foam is tack-free in 10 minutes and fully cured in 24 hours. If necessary, any excess cured foam can be trimmed with a sharp knife or sanded. Cured foam exposed to prolonged sunlight must be covered with paint, stain or sealant.

Notes:

- Insufficient air, humidity and/or substrate moisture during application may cause delayed curing or improper cell formation of the foam material. Lightly spraying the cavities with a water atomizer in dry or low humidity climates will allow the foam to cure and develop proper cell structure.
- If possible, avoid direct sunshine to the joint during application. Direct sunshine and high temperatures may cause the foam to sag and flow out of the joint during application and before curing. Cooling the can down prior to application may help to prevent this issue.

Clean-up:

Clean tools and uncured product residue immediately with OSI® WINTeQ™ TeQ::Clean™ Foam and Applicator Cleaner. Cured foam is not affected by solvents and is extremely difficult to remove.

STORAGE AND DISPOSAL

Store in a cool, dry place for maximum performance and shelf life. For extended storage periods, store at temperatures greater than -4°F (-20°C). Containers are under pressure. Do not expose to open flame or temperatures above 120°F (49°C). Excessive heat can cause bursting and premature aging of components resulting in shorter shelf life.

Note: When storing foam dispensing applicators with foam cans attached, be sure to store the tool with the can valve pointing downwards. Storing the can upright may cause propellant to leak and the foam applicator to become in-operative.

LABEL PRECAUTIONS

DANGER! Contains modified polymeric MDI (proprietary), diphenylmethane diisocyanate (9016-87-9), tris(2-chloroisopropyl) phosphate (13674-84-5), dimethylether (115-10-6) and hydrocarbon propellant mixture **EXTREMELY FLAMMABLE**. Do not use near sparks, heat or open flame. Vapors will accumulate readily and may ignite explosively. Ventilate area during use and until all vapors are gone. **DO NOT SMOKE**. Extinguish all ignition sources. If burned, dried foam may release hazardous decomposition products. Dried foam may be combustible if exposed to flame or temperatures above 240°F. **CONTENTS UNDER PRESSURE**. Avoid prolonged exposure to sunlight or heat from radiators, stoves, hot water and other heat sources that may cause bursting. Do not puncture, incinerate, burn or store above 120°F. Do not discard empty can in garbage compactor. **VAPOR AND SPRAY MIST HARMFUL**. Gives off harmful vapor of solvents and isocyanates. Do not use if you have chronic lung or breathing problems, or if you have ever had a reaction to isocyanates. Use only with adequate ventilation. Where overspray is present, wear appropriate respiratory protection. If you have breathing problems during use, leave the area and get fresh air. If problems linger or occur later, call a doctor or obtain emergency medical treatment; have this label with you. **EYE AND SKIN IRRITANT**. Avoid contact with eyes and skin. Prolonged or repeated skin contact may lead to sensitization and dermatitis. Wash hands after using. Do not take internally. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

FIRST AID: For eye contact, flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wipe off excess uncured foam with clean rag or paper towel immediately. Get medical attention if irritation develops and persists. If affected by inhalation, remove to fresh air and contact a physician. If swallowed, do not induce vomiting. Call a physician or Poison Control Center immediately. For professional use only. **KEEP OUT OF REACH OF CHILDREN**.

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties	Typical Application Properties
<u>Color:</u> Yellow	<u>Application Temperature:</u> 32°F (0°C) to 86°F (30°C)
<u>Appearance:</u> Minimal expansion foam	<u>Tack-Free Time:</u> Approx. 10 minutes
<u>Base:</u> Single Component Polyurethane	<u>Cut Time:</u> < 1 hour
<u>Specific Gravity:</u> 1.1	<u>Cure Time:</u> 1 to 6 hours
<u>Flash Point:</u> < 0°F (-17.78°C)	
<u>VOC Content:</u> < 177 g/L (16% by weight)	
<u>Shelf Life:</u> 18 months from date of manufacture (unopened)	
<u>Lot Code Explanation:</u> YYDDD YY = Year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 09061 = 61 st day of 2009 = March 2, 2009	
(Lot code is stamped on bottom of canister)	

Typical Cured Performance Properties

<u>Color:</u>	Yellow
<u>Service Temperature:</u>	-40°F (-40°C) to 230°F (110°C)
<u>Surface Burning Characteristics:</u> (ASTM E 84)	
Flame Spread	15
Smoke Development	25
<u>AAMA 812:</u>	
Pressure Build-up	0.0247 psi
Deflection	0.0050 in.
<u>Specifications:</u>	<ul style="list-style-type: none"> ▪ GreenGuard® Certified for Children and Schools Tested in Accordance with: <ul style="list-style-type: none"> ▪ AAMA 812 Pressure Test for Polyurethane Foam ▪ AAMA 504 Voluntary Laboratory Test Method to qualify Fenestration Installation Procedures <ul style="list-style-type: none"> ▪ **Conforms to ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights, Annex A1, Type A – Low Pressure Foam Sealant

**The WINTeQ™ System uses similar practices and principle as ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights. ASTM E2112 is intended to provide technical guidance to organizations that are developing training programs for installers of fenestration units. The majority of fenestration units and materials used to install them are certified as meeting specified performance characteristics. The WINTeQ™ System products have been tested in accordance with the relevant specifications required for performance under both ASTM and AAMA guidelines. The specifications for each product are listed on each components individual technical data sheet.