

## Tremco Structural Silicone Glazing *Section 4 – In-Plant Glazing*

Structural Silicone Glazing can be accomplished by glazing window units on the job site or by glazing in a factory (in-plant glazing). Generally four-sided unitized curtainwall systems are glazed in plant. In-plant glazing has its advantages over field glazing as quality can be more controlled, job progression is not affected by the elements, and labor costs are usually lower.



Glazing units in a factory setting demands a fast curing silicone to keep units moving quickly maximizing output. Tremco's Proglaze II structural silicone is recommended for in-plant glazing. This two-part, high modulus, fast curing silicone allows movement of units in significantly shorter period of time than with a one-part, moisture curing silicone. Proglaze II can be found in some of the most architecturally appealing buildings around the globe. This product is highlighted in the Case Study of the Charles E. Bennet Federal Building Case Study (Section 3).

In-plant glazing often requires the use of air operated, metered pumping and dispensing systems. Tremco has experience with this dispensing equipment and can provide assistance with obtaining equipment and conducting start-ups.

To assist in providing pumping equipment, Tremco has partnered with both Graco Inc. and H & G Industries International, Inc., two manufacturers of pumping and dispensing equipment. Both Graco and H & G are able to provide pumping equipment for in-plant glazing projects. The following pages recommend models used for in-plant glazing with Tremco Proglaze II Structural Silicone.

Quality procedures must be followed in order to keep these pumps running at all times. Tremco has written quality assurance procedures that are recommended to control the quality of the Proglaze II sealant which will help to maintain up-time. These procedures can be found in Tremco's Structural Glazing Procedures which can be obtained from your local Tremco Sales Representative.

Other considerations that should be discussed with the equipment manufacturer are floor space requirements, environmental conditions, air supply accessibility, etc. The following contact information is provided to assist with these types of questions along with sales information and technical support:

**Graco Customer Service and Technical Support:**

[www.graco.com](http://www.graco.com)

1-877-84GRACO (1-877-844-7226)

**H & G Industries International, Inc.**

[www.h-g.com](http://www.h-g.com)

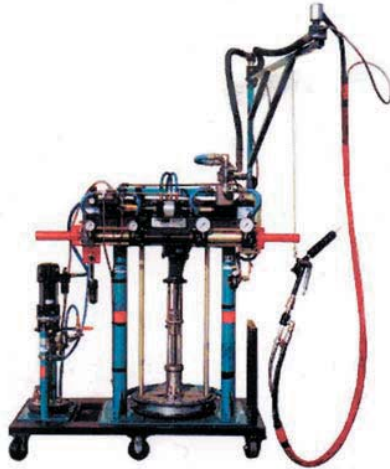
1-800-528-7303 Sales

1-775-246-3032 Technical Support

Contact your local Tremco sales representative to discuss any sealant dispensing equipment needs.



**MODEL 427AG-300S**



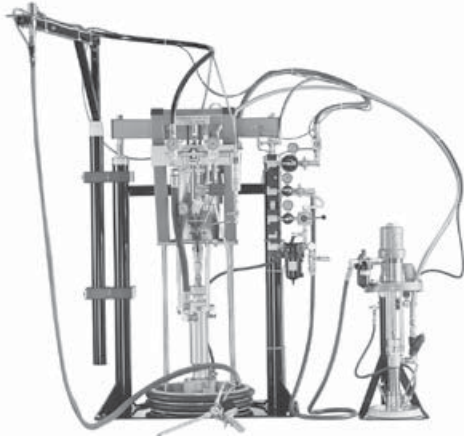
- Standard Features
- Continual Flow System
- Minimal Base Purge
- All Pneumatic (no electricity)
- Precise Fixed Ratio
- Ratio Check
- Lubricators, Regulators, & Filters
- Upright Swiveling Boom with Large gunning Radius
- Comprehensive Manual
- Heavy Duty Steel Cart
- Expandable for Additional Gunning Stations





## Graco Hydra-Mate System

### Plural-Component Proportioning / Dispensing Unit



#### **Accurate proportioning of high-viscosity, wide-ratio materials**

Graco's Hydra-Mate package dispenses and applies small to large beads of adhesives in automotive applications or in other product assemblies. It provides accurate proportioning, reliability and continuous uniform application.

This package uses a valve that requires no flushing and is powered by the reliable Bulldog proportioning pump.

#### **Features and Benefits**

- Maximizes material savings by keeping mixed material to a minimum
- Delivers a consistent, high-output flow of material, ensuring line speed and proper curing
- Versatile and flexible with material ratios



## 8900 Proportioner

### Plural Component Fixed & Variable



#### **Precise, positive displacement metering using double-acting cylinders**

The 8900 Proportioner uses fluid inlet pressure to continuously reciprocate two connected cylinders. This fluid pressure is usually provided by two pumps which supply consistent pressure to the proportioner cylinders.

As the major volume cylinder (base) and minor volume cylinder (catalyst) reciprocate, they positively displace the two material components on ratio to the outlet ports. Specially-sized hoses connect the proportioner to a choice of mixers to ensure ratio accuracy. Static mixers are incorporated into the system to deliver a homogeneous mix of base and catalyst.

#### **Features and Benefits**

- Dependable, production-proven operation
- Rugged, reliable heavy-duty components
- Fixed or adjustable ratio versatility
- Continuous, "on-demand" or adjustable shot-size dispensing
- Modular system configurations for customizing to suit your needs