

Cl/SfB	Yt4
CAW P22	
Uniclass L675:P743	
April 2012	

### KEY BENEFITS SUMMARY

- Excellent adhesion to glazed surfaces, aluminium, many plastics and coated substrates
- Wide Service Temperature Range: -50°C to +180°C
- Wide Movement Accommodation: 20%
- Translucent Grade: Tremco GS300's exceptional translucent quality makes it ideal for highly visible positions (eg. display cases and shop windows)
- Standards: Tremco GS300 meets the requirements of ASTM C920 Type S Class 25 and ISO 11600 G - 20 HM

### PRODUCT INFORMATION

#### Description

Tremco GS300 (formerly Tremsil 300) is a one component gun grade moisture cured silicone sealant, which cures rapidly to form a permanently flexible and extremely durable weathertight seal.

#### Usage / Purpose

Tremco GS300 can be used to seal:

- all classical glazing joints including cap beads
- shop windows, display cases, etc.
- conservatories and greenhouses
- door and window frames
- cladding and curtain wall construction

- portable buildings, caravans and containers
- construction joints
- marine hardware.

#### LIMITATIONS

Tremco GS300 is NOT recommended for:

- sensitive areas which could react with the acetic acid released during cure
- materials where migration of constituents can take place (eg. certain rubbers)
- structural glazing applications
- use with concrete, marble, galvanised steel, copper, brass and lead
- oil based substrates (eg. impregnated timber)
- permanent immersion
- over painting
- uses where abrasion or physical abuse will be encountered (eg. trafficable joints).

#### Colours

Translucent, white, aluminium, grey and black. Other colours available subject to availability/minimum order quantity.

#### Environmental Considerations

The use of Tremco GS300 in the correct application will give an airtight seal in conformity with the requirements laid down in Approved Document L of the Building Regulations for England and Wales.

#### Packaging

310ml cartridges (20 per case)

#### Availability

Direct from Tremco Illbruck (see back of leaflet for address and telephone details) or local and national distributors.

### TECHNICAL INFORMATION

#### Composition

Tremco GS300 is an acetoxy cure silicone that releases acetic acid during cure.

#### Characteristics (Typical Values)

##### SPECIFIC GRAVITY

1.02

#### Performance (Typical Values)

##### CONSISTENCY (ISO 7390)

Non-sag

##### EXTRUSION RATE (23°C)

250 ml/min

##### SKIN FORMING TIME (at 23°C, 50% RH)

15 min

##### CURE RATE (at 23°C, 50% RH)

3 mm/24 hours

##### TENSILE STRENGTH (ISO 8339)

0.8 MPa

##### ULTIMATE ELONGATION (ISO 8339)

200%

##### MODULUS AT 100% ELONGATION (ISO 8339)

0.55 MPa

##### HARDNESS SHORE 'A' (ISO 868)

22

##### ELASTIC RECOVERY (ISO 7389)

95%

##### SERVICE TEMPERATURE RANGE

-50°C to +180°C

## USAGE GUIDELINES

### Joint Design Considerations

- Joint design to be in accordance with BS 6093.
- For the purposes of joint width calculation in BS 6093, the MAF of Tremco GS300 is 20%.
- Width to depth ratio of Tremco GS300 should be 2:1, subject to a minimum depth of 6mm on non-porous substrates and minimum depth of 10mm on porous substrates.
- Sealant width not to be less than sealant depth.
- For fillet joints, the minimum bite onto each surface should be 10mm for porous substrates and 6mm for non-porous substrates.

### Surface Preparation

- Joint faces should be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion.
- Thoroughly clean with a suitable cleaning solvent using the two cloth method. This is where one cloth is dampened with the cleaning product to lift contaminants and a second clean dry cloth is used to remove any cleaner residue. Contact Tremco Technical Services for further information if required.

### Priming

- Glass, porcelain, glazed ceramics - no primer.
- A site adhesion trial is recommended to ensure substrate compatibility before commencement of main installation. Consult with Tremco illbruck Technical Department for further information if required.

### Method of Application

- Application should be in accordance with BS 8000:16 - "Code of practice for sealing joints in buildings using sealants".
- Apply between +5°C and +40°C using conventional skeleton gun.
- All beads should be tooled after application to ensure firm, full contact with the joint faces.
- Tooling should commence without delay as Tremco 300 is a rapid skinning product.

### Coverage Rate

(Approximate Linear Metres per 310ml Cartridge)

WIDTH	6 mm	10 mm	20 mm	25 mm
DEPTH (min)				
6 mm	8.6	5.2	-	-
10 mm	-	-	1.6	-
12 mm	-	-	-	1.0

### FILLET JOINTS TRIANGULAR CROSS SECTION

$$6 \text{ mm} \times 6 \text{ mm} = 17$$

$$10 \text{ mm} \times 10 \text{ mm} = 6.2$$

### Cleaning

Immediately remove excess sealant and smears adjacent to the joint (use masking tape where appropriate). Cured sealant can only be removed by abrasion.

### Health & Safety Precautions

Product Health and Safety Data Sheet must be read and understood before use.

### Storage

Store in dry conditions between +5°C and +25°C.

### Shelf Life

18 months when stored in its original unopened packaging.

### Technical Service

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 00942 251400.

### Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.