



Tremco FA600 Sealant

FA600 is a gun grade, neutral cure silicone sealant with fungicide.

USAGE/ PURPOSE

FA600 cures rapidly to form a permanently flexible and extremely durable watertight seal. It is designed for sealing glazing applications, window and door perimeters, display cases, conservatories and greenhouses.

ENVIRONMENTAL CONSIDERATIONS

The use of FA600 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.

TECHNICAL INFORMATION:

CHARACTERISTIC	STANDARD	CLASSIFICATION
Composition		neutral cure silicone sealant with fungicide
Specific Gravity		~1.01
Consistency	ISO 7390, profile U20	non-sag
Shore A Hardness	ISO 868	~20
Skin Forming Time	at 23°C, 50% RH	~10 minutes
Tack Free Time		~ 30 minutes
Cure Rate	at 23°C, 50% RH	~ 2mm/1st day
Tensile Strength	ISO 8339	~ 0.5 N/mm ²
Modulus at 100% Elongation	ISO 8339	~ 0.4 N/mm ²
Elongation at Break	ISO 8339	~ 230%
Movement Capacity	ISO 11600	25%
Elastic Recovery	ISO 7389	~ 85%
Application Temperature		+5°C to +40°C
Service Temperature Range		-40°C to +150°C

Colours:

Translucent, white, brown, black and grey

Packaging:

310 ml cartridge (20 per carton)
600ml sausage (20 per carton)

Tools Required:

Cartridge gun and sharp knife

Protective Equipment:

Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product

Priming:

FA600 has excellent primerless adhesion to many typical construction materials.

Shelf Life:

12 months when stored as recommended in original unopened containers

Storage:

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

Health & Safety Precautions:
Safety data sheet must be read and understood before use.



KEY BENEFITS :

- Meets the requirements of EN ISO 11600 F&G 25LM
- Long-term resistance to weathering, ageing and UV.
- Wide service temperature range -40°C to + 150°C
- Neutral curing: compatible with sensitive substrates

JOINT DESIGN CONSIDERATIONS :

- Joint design to be in accordance with BS 6093.
- Minimum joint width should normally not be less than 5 mm.
- Typical maximum joint width of 30 mm, however for all large joints (greater than 30 mm), please contact ICB Waterproofing to discuss project specifics.
- Width to depth ratio should typically be 2:1.
- Minimum width to depth ratio should typically be 1:1.
- Please note MAF is reduced at smaller width to depth ratios.
- The minimum contact area with any substrate (including for fillet joints) should be determined by the quality of the bond. If in doubt please contact ICB Waterproofing.
- PE backing rod should be used in all movement joint applications.

PREPARATIONS:

- Always carry out a test to confirm compatibility prior to use.
- Surfaces must be clean, free from grease and must be stable and dry.
- For plastic substrates use cleaner AT115, do preliminary test.
- For other non-porous substrates use cleaner AT200, do preliminary test.
- Use a brush to remove loose particles from joints.
- For plastics and powder coatings, clean with AT115 and conduct preliminary tests to confirm compatibility.

JOINT BACKING:

- PE Backing rod is recommended beneath the joint to ensure the sealant is only bonded to two surfaces.

APPLICATION:

- Use a good quality sealant gun to expel the sealant consistently. Cut cartridge nozzle to desired aperture.
- Apply sealant slightly proud of desired level, spray on illbruck smoothing agent AA301
- Tool off immediately using a jointing tool such as AA311.
- Wipe/wash away excess smoothing agent with clean water to avoid streaking.

PRIMERS & CLEANERS COVERAGE:

- Coverage below is based on a 500 ml tin applied to a 10mm deep joint and applied to one side only.

ADHESION TABLE:

BRICKS, CONCRETE & STONE	
Brick	+, AT101
Concrete	+, AT101
Natural Stone	
Plaster	
METALS	
Aluminium	+
Aluminium Anodised	+
Aluminium Powder Coated	+, Test
Brass	
Copper	
Galavanised Steel	+, AT105, AT120
Iron	+, AT105, AT120
Stainless Steel	+, AT105, AT120
GLASS	
Glass	+
PLASTICS	
ABS	+, AT120
Acrylic Glass PMMA	+, AT120
Polyamide*	+, AT120
Polycarbonate*	+, AT120
Polyester GRP	+
PVC Rigid	+, AT160
PVC Soft Sheet/Film	
Sanitary Acrylic	
WOOD	
Wood*	+
Wood Primed*	+, AT101
Wood Painted (Acrylic)	+, Test
Wood Stained	+, AT101
TILES	
Glazed Tiles	+
Tiles Reverse Side	+, AT101
Unglazed Tiles	+, AT101
OTHERS	
Enamel	+

*Substrates can vary in their surface properties, therefore adhesion tests prior to using are recommended

+ = good adhesion can normally be expected without primer. Reference numbers (e.g. AT111) show the type of illbruck primer required to improve adhesion.

Where there is no result listed according to substrate please contact technical department.



PRIMERS AND CLEANERS COVERAGE:

	MAXIMUM LM	MINIMUM LM
Primer: Non-porous substrates		
AT105	1,147	1,037
AT120	958	867
AT150	1,498	1,356
AT160	1,381	1,249
Primer: Porous substrates		
AT101	484	291
AT140	907	544
Cleaner		
AT115	547	495
AT200	164	148

Coverage above is based on a 500ml tin applied to a 10mm deep joint and applied to one side only.

COVERAGE:

WIDTH X DEPTH(MM)	LINEAR METRES PER 310ML CARTRIDGE
6 x 6	8.6
10 x 6	5.2
10 x 10	3.1
20 x 10	1.6
25 x 12	1.0
FILLET JOINT WIDTH X DEPTH (MM)	LINEAR METRES PER 310ML CARTRIDGE
6 x 6	17.0
10 x 6	6.2
WIDTH X DEPTH (MM)	LINEAR METRES PER 600ML SAUSAGE
6 x 6	16.7
10 x 6	10.0
10 x 10	3.0
20 x 10	2.0
FILLET JOINT WIDTH X DEPTH (MM)	LINEAR METRES PER 600ML SAUSAGE
6 x 6	33.3
10 x 10	12.0

CLEANING:

Remove excess sealant immediately with AT200 High strength cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

PLEASE NOTE:

Not suitable for some substrates such as neoprene, butyl rubber, EPDM, bituminous or tar containing surfaces. Contact with bituminous or tar containing surfaces can lead to discolouration and failing adhesion. Not suitable for trafficable joints or areas subject to abrasion. Not suitable for over painting. For safe sealing on natural stone use FA870/FA880. On other sensitive substrates test first.

HEALTH & SAFETY PRECAUTIONS

Safety data sheet must be read and understood before use.