

Cl/SfB		Yt4
CAW P22		
Uniclass L675:P743		

Description

FA101 is a one part, neutral curing, low modulus, low odour silicone sealant for sealing around frames and glazing units. It exhibits excellent primerless adhesion to many common building substrates such as glass, polyacrylate, polycarbonate, painted wood, varnished wood, anodised aluminium, and forms an excellent waterproof seal.

Colour

389 Transparent, 426 Pure White, 240 Middle Brown and 051 Black

Packaging

310 ml cartridges (20 per carton)

Technical Information

Characteristic	Standard	Classification
Specific Gravity	EN ISO 1183-1 B	~ 1.0
Fire classification	EN13501-1	Class E
Resistance to Flow	EN ISO 27390 (20 mm)	0 mm
Shore A Hardness	ISO 868	~ 20
Skin Forming Time	at 23°C, 50% RH	~ 5-10 minutes
Cure Rate	at 23°C, 50% RH	~ 2 mm/1 st day
Volume Shrinkage	EN ISO 10563	3%
Tensile Strength	EN ISO 8339	~ 0.5 N/mm ²
Elastic Recovery	EN ISO 7389	~ 80-90%
Modulus at 100% Elongation Black & Middle Brown	EN ISO 8339 at 23°C	~ 0.3-0.4 N/mm ²
Modulus at 100% Elongation White & Transparent	EN ISO 8339	~ 0.4 N/mm ²
Elongation at Break	EN ISO 8339	~ 230%
Movement Capability	ISO 11600	25%
Classification	EN 15651	EN 15651-1 class 25 LM CC EN 15651-2 class 25 LM CC
	ISO 11600	DIN EN ISO 11600-F-25LM DIN EN ISO 11600-G-25LM
Application Temperature		+5°C to +40°C
Service Temperature Range		-40°C to +150°C
Storage		Store in dry conditions between +5°C and +25°C.
Shelf Life		12 months when stored as recommended in original unopened containers.

Necessary Tools

- 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. For full recommendation, refer to safety data sheet.



FA101

Premium Glazing Silicone



Usage / Purpose

FA101 Premium Glazing Silicone is typically used around glazing. It is also suitable for movement joints, meeting the requirements of EN ISO 11600. It offers good adhesion to most non-porous substrates such as anodized aluminium, polyacrylates, polycarbonates, painted or varnished wood, glass and glazed surfaces.

Key Benefits

- Abrasion resistant
- Long term resistance to weathering ageing and extra UV protection
- Neutral curing – low odour and compatible with sensitive substrates
- Easy to use
- Contains fungicide

Premium Glazing Silicone

Priming

- FA101 has excellent primerless adhesion to many typical construction materials. For special situations, or if in doubt, please contact tremco illbruck Technical Services Department to discuss your requirements.

Primer Table

Bricks, Concrete & Stone	
Concrete	+, AT101
Brick	AT101
Natural Stone	
Plaster	AT101
Metals	
Aluminium	+
Aluminium Anodised	+
Aluminium Powder Coated	+, Test
Brass	+, AT105, AT120
Copper	+, AT105, AT120
Galvanised 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*	AT105, AT120
Sanitary Acrylic*	AT105, AT120
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 testing prior to use is recommended	
** Applies to Middle Brown & Black – see separate primer table for Translucent & Pure White	
+ = 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 for Translucent & Pure White	
Iron	+
Polyester GRP*	+, AT105, AT120, AT105, AT106
Acrylic Glass PMMA	AT120
*substrates can vary in their surface properties, therefore adhesion testing prior to use is 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 & Cleaners Coverage

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

	Maximum lm	Minimum lm
Primer: Non-porous substrates		
AT105	1,147	1,037
AT120	958	867
AT160	1,381	1,249
Primer: Porous substrates		
AT101	484	291
Cleaner		
AT115	547	495
AT200	164	148

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 FA101 is 25%.
- 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 tremco illbruck 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 tremco illbruck.
- PE backing rod should be used in all movement joint applications.

Surface Preparation

- Always carry out a test to confirm compatibility prior to use.
- Surfaces must be clean, free from grease, stable and dry.
- For 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

- Polyethylene (PE) backing rod is recommended beneath the joint to ensure the sealant is only bonded to two surfaces.

Premium Glazing Silicone

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.

Coverage

Width x Depth (mm)	Linear metres per 310 ml Cartridge
5 x 3	20.7
5 x 5	12.4
8 x 6	6.5
10 x 8	3.9
15 x 10	2.1
20 x 12	1.3
25 x 15	0.8

Cleaning

Clean tools or sealant spillage immediately with AT200 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 areas. Not suitable for overpainting. For safe sealing on natural stone use FA870/FA880. On other sensitive substrates test first.

When used in IG applications, users are required to check and perform compatibility testing with the unit components and materials prior to use – please contact tremco illbruck technical services department for further advice.

Translucent and pure white options have improved resistance to yellowing in areas where no natural light is present (e.g. bathrooms without windows). The other colours may show slight yellowing in such areas.

Health & Safety Precautions

Safety data sheet must be read and understood before use.



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 01942 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.



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