

## PRODUCT DESCRIPTION

TAL GOLDSTAR SEALMASTER 1000 is a single component permanently flexible moisture curing polyurethane based adhesive and joint sealant. TAL GOLDSTAR SEALMASTER 1000 exhibits excellent properties for adhesion between most substrates and materials, including materials with dissimilar coefficients of expansion. TAL GOLDSTAR SEALMASTER 1000 is fast curing and is resistant to shock, vibration and temperature change when cured. TAL GOLDSTAR SEALMASTER 1000 is available in Grey. White and Black are available by special order.

## AREAS OF APPLICATION

TAL GOLDSTAR SEALMASTER 1000 can be used for heavy and light precast panel expansion joints, wood, aluminium and PVC joinery seams, and expansion joints in traditional construction. TAL GOLDSTAR SEALMASTER 1000 is highly recommended for bonding baked clay and concrete roof tiles. GOLDSTAR SEALMASTER 1000 shows excellent adhesion without primer to steel, PVC, zinc, fibre cement, aluminium, marble, clay, concrete, brick, wood, most lacquered metals, polyester, glass, stone, ceramic tiles, etc.

## VOC Content :

Specification : Green Building Council of South Africa  
Office Design V1 IEQ-13  
Green Star Office Interiors V1.1 IEQ-11

Multipurpose Construction Adhesive :  
70 grams per Litre as VOC content material

TAL GOLDSTAR SEALMASTER 1000:  
21.2g / L as VOC content material

## TECHNICAL DATA

Appearance	Pasty
Colour	Various
Density at 20°C	Grey 1.16 ± 0.02 (Black and White : 1.15 ± 0.02)
Sagging (ISO 7390)	None
Application Temperature	5 - 35°C
Skin Formation Time (at 23°C and 50% RH)	Ca 70 minutes
Cure Time (at 23°C and 50% RH)	3mm / 24 hours
Shore A Hardness (Internal Method IT20 after ISO 868 – 3 seconds)	Ca 40
Modulus at 100% (ISO 8339)	Ca 58 psi (0.4 MPa)
Elongation at Break (ISO 8339)	>500%
Temperature Resistance	-30 - +80°C
Resistance to Dilute Acids and Bases	Average
UV Resistance	Good
Water and Salt Spray Resistance	Excellent
Compatibility with Paints	Water Based : Yes
Specific data	Solvent Based : Carry out tests beforehand Modulus at 100% (ISO 37) : Ca 0.3MPa Modulus at break (ISO 37) : Ca 1.4MPa Elongation at break (ISO 37) : > 600%

## SURFACE PREPARATION

**The surfaces must be clean, dry and free from dust, oil, grease, grime, mould or shutter release agents, water/condensation and any other contaminants that could hinder bonding. Mechanical abrading and/or solvent wiping may be required.**

**If the substrate needs to be cleaned, use methylethylketone (MEK), acetone or grease removers, provided they are compatible with the substrates to be bonded.**

Priming may be required for certain applications involving bare metal. Pre-testing for adhesion is recommended since substrate types and uniformity can vary. If in doubt consult the TAL Technical Advice Centre on 0860 000 TAL(825) or e-mail taltech@tal.co.za for further assistance.

## APPLICATION

### Bonding

- After suitable substrate preparation, insert the sausage into a TAL SEALMASTER CAULKING GUN, or suitable caulking gun, and then either 'nick' or cut the foil wrapper at the extrusion end. Fit the gun with a suitable nozzle that has been cut to deliver the right bead size.
- Apply TAL GOLDSTAR SEALMASTER 1000 in strips or spots on the bonding surface at intervals of a few centimetres. Use hand pressure to set the item to be bonded into position. If necessary, use adhesive tape, wedges, or props to hold the assembled items together for the initial hours of curing.
- When bonding large items, apply continuous, firm pressure in a sweeping motion along the adhesive lines to ensure full contact.
- An incorrectly positioned item can be easily repositioned within the first 10 minutes after application. Apply pressure again.
- Optimum bonding will be obtained after complete curing of TAL GOLDSTAR SEALMASTER 1000, i.e. after 24 to 48 hours at +23°C for a thickness of approximately 3mm.

### Joint Sealing

- After suitable joint and substrate preparation, insert TAL SEALMASTER CORD, or suitable backing cord, to required depth and apply primer if necessary. (Typically, the diameter size of the backing cord should be 25% larger than the joint width.)
- Insert the sausage into a TAL SEALMASTER CAULKING GUN, or suitable caulking gun, and then either 'nick' or cut the foil wrapper at the extrusion end. Fit the gun with a suitable nozzle that has been cut to deliver the right bead size.
- Firmly extrude TAL GOLDSTAR SEALMASTER 1000 into the joint, making sure that it is full contact with the sides of the joint. Fill the joint, avoiding air entrapment.

- TAL GOLDSTAR SEALMASTER 1000 must be tooled firmly against the joint sides to ensure good adhesion. Masking tape must be used where exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.
- After application, use a putty knife or suitable jointing tool with soapy water to smooth the joint.

**Note:**

- This product should be used within 24 hours after opening, otherwise the sealant will harden in the sausage / caulking gun. **Do not apply at temperatures below 5°C.** In cold weather conditions, store sausages at 20°C before use.
- Do not apply over silicones or in the presence of curing silicones. Avoid any contact with non-cured MS, hybrid PU as well as alcohols or ammonia during curing.

**CLEANING**

Cleaning of uncured sealant can be done using a dry cloth to remove excess sealant, followed with a cloth dampened in MEK or acetone. Tools should be cleaned with MEK or acetone before the sealant has completely cured. After curing, abrasion is necessary.

**MAINTENANCE CLEANING**

General maintenance / cleaning can be undertaken using a solution of mild detergent and water when necessary. **Acid or Solvent based cleaning agents must not be used.** Replace any product which is accidentally removed or damaged by mechanical abrasion.

**COVERAGE**

**Bonding**

Nozzle size (mm)	2	3	4	5	6	7	8	9	10
Linear metres	150	67	37	24	16	12	9	7	6

**Joint Sealing**

**Linear Metres per 600ml Sausage**

Joint Depth (mm)	Nominal Joint Width (mm)								
	5	6	8	10	12	15	20	25	50
5	24	-	-	-	-	-	-	-	-
6	X	16.6	-	-	-	-	-	-	-
8	X	X	9.4	-	-	-	-	-	-
10	X	X	X	6.0	5.0	4.0	3.0	-	-
12.5	X	X	X	X	X	X	X	1.9	-
25	X	X	X	X	X	X	X	X	0.5

Coverage based on nominal dimensions.

'—' - Shallow joint. Risk of sealant tearing. Make joint deeper.

'X' - Joint depth > width. Risk of sealant tearing. Adjust depth with backing cord.

**PACKAGING**

TAL GOLDSTAR SEALMASTER 1000 is available in 600ml sausages, and is available in Grey. White and Black are available by special order. TAL SEALMASTER CORD is available in 6mm x 100m rolls. Other sizes are available by special order.

**STORAGE & SHELF LIFE**

When stored in dry internal conditions between 5°C and 25°C in the original, hermetically sealed sausages the product has a shelf life of 12 months from date of manufacture.

**PRECAUTIONS**

Avoid prolonged breathing of vapours. When using solvents, extinguish all sources of ignition and carefully follow the manufacturer's precautions and directions for use. Use solvents in accordance with local regulations. Solvent should be compatible with substrates.

Contact TAL for further health and safety information. Dispose of this product in accordance with local regulations.

**WARNING**

**COMBUSTIBLE LIQUID AND VAPOUR. MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ASTHMA-LIKE SYMPTOMS IN PERSONS PREVIOUSLY SENSITIZED TO ISOCYANATES. DO NOT INGEST. USE ONLY AS DIRECTED. AVOID SKIN AND EYE CONTACT. PROTECT SENSITIVE SKIN WITH RUBBER GLOVES. WORK IN A WELL VENTILATED AREA. KEEP OUT OF REACH OF CHILDREN.**