



*The Glue People*

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# Tradeseal MS/HG

**High quality MS-Polymer adhesive**

## **Product Description**

Tradeseal MS/HG is a high quality, single component, high strength adhesive. It is based on MS-Polymer, chemically neutral and fully elastic. Tradeseal MS/HG is formulated as a High Grab, safe to use, general purpose adhesive for use in many industries.

## **Characteristics**

- Safe to use - No isocyanates, halogens, acids, alkalis or solvents.
- Minimal health and safety considerations.
- High bond strength on nearly all surfaces.
- Very high grab – most materials will need no support during cure.
- Highly resistant to all weathers, sea water, etc
- Excellent adhesion on porous surfaces and most plastics, including PVC and GRP.
- High performance mechanical properties.
- Flexible elastic rubber – movement accommodation up to 25%.
- Straightforward application even in adverse conditions.
- No bubble formation within sealant (in high temperature and humidity applications).
- Primerless adhesion (except where capillary water pressure can occur).
- Very easy to tool and finish.
- Colour stability and UV resistant – does not yellow.
- Ecological advantages – free of isocyanates, solvents, halogens and acids.
- Over-paintable with all water based paints and many other systems.
- Resistant to many chemicals.
- No staining of porous materials such as natural stone, granite (for marble please test a small area first).

## **Applications**

All bonding applications in the building and metal industry. Structural bonding in vibration constructions. Panel bonding for caravans and commercial vehicles. Many bonding applications in the marine industry.

## **Packaging and Colours**

Available in 290ml cartridges or 600ml foil packs in white only. Other colours can be made available to minimum order quantities.

## **Shelflife**

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

**Technical Data**

<b>Base:</b>	Hybrid polymer
<b>Consistency:</b>	Stable Paste
<b>Curing System:</b>	Moisture Cure
<b>Skin Formation:</b>	10 min (20°C/65% relative humidity)
<b>Curing Rate:</b>	2-3mm/24h (20°C/65% R.H.)
<b>Hardness:</b>	50 ± 5 Shore A
<b>Shrink:</b>	None
<b>Specific Gravity:</b>	1.62
<b>Temperature Resistance:</b>	-40°C until +90°C
<b>Elongated at break:</b>	500% (DIN 53504)
<b>Elasticity Modulus 100%:</b>	1.3 N/mm <sup>2</sup> (DIN 53504)
<b>Breaking Strength:</b>	2.0 N/mm <sup>2</sup> (DIN 53504)
<b>Elastical recovery:</b>	>70%
<b>Max Allowed Distortion:</b>	20% ±

**Chemical resistance**

<b>Good:</b>	<b>Poor:</b>
Water, inc sea water.	Aromatic solvents
Aliphatic solvents	Concentrated acids
Mineral oils	Chlorinated hydrogen
Grease	
Diluted inorganic acids and alkalis	

**Application**

<b>Surface preparation:</b>	Clean, dry (or moist but not wet) and free from dust, grease and any other contaminants. Non porous surfaces may be primed with TGP Adhesion Promoter.
<b>Application method:</b>	Manual or pneumatic caulking gun
<b>Application temperature:</b>	+1°C until +30°C
<b>Cleaning:</b>	Clean with white spirits immediately after application
<b>Finishing:</b>	Smooth joint with a soapy solution before skin forming

**Transport Information**

<b>Road:</b>	ADR	Free
<b>Maritime:</b>	IMDG	Free
<b>Air:</b>	ICAO / IATA-DGR	Free
<b>UN Number:</b>	None	Does not apply

**Labelling**

No hazardous labelling required.

**Information**

Tradeseal MS/HG may be overpainted, however, due to the large number of paints and varnishes available we strongly recommend a compatibility test prior to application. The drying time of alkyd resin paints may increase.

**Important Notice**

Data contained in this document is for information only and is believed to be reliable. Trade Grade Products Ltd (TGP) cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability of the product for any specific purpose and TGP is pleased to provide a sample upon request.

Before using this product ensure that you have been supplied with and have read carefully the following information.

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- Material Safety Data Sheet, Tradeseal MS/HG.