



HIGH TEMPERATURE ADHESIVE LIMITED

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PRODUCT DATA SHEET: HTA120

Product: HTA120 - High Temperature Rated Silicone Sealant/Adhesive

Principal Characteristics

HTA120 is a Flexible elastomeric adhesive sealant. HTA120 will bond to a wide range of substrates. HTA120 is a Temperature Rated Silicone Adhesive and Sealant used for application where sealing or fixing of materials is required – to form a high heat resistant joint or bond. Other features include high flexibility, excellent water/weather resistance (see independent test reports), fixing of materials with differing thermal expansion characteristics. HTA120 has been fully tested for use on both steel and concrete substrates.

HTA120 offers adhesion to a wide range of building material substrates. (contact HTA Ltd for advice)

Resistant to weathering and ageing – can be used both internally and externally. (contact HTA Ltd for advice and reports)

Typical Applications

HTA120 has been independently tested at various national and international testing facilities to ensure compliance for use within various forms of passive fire protection, including but not limited to:

1. RWS Tunnel applications – mesh retention to concrete substrate in conjunction with spray applied cement-based systems.
2. UL1709 H/C Curve.
3. ENV H/C Curve.

Quality Assurance

HTA120 is manufactured in the UK under strict ISO9001 conditions.

Health and Safety / Environmental Information

See separate MSDS sheets (MSDS – HTA120 Silicone Sealant/Adhesive).

RoHS Compliant.

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Storage

Once opened HTA120 is moisture sensitive, avoid continuous exposure to air.

HTA120 should be stored in its original packaging between 5 – 30c.

Shelf life – 24 months.

HTA120 Application

Please refer to separate application guides. In the event specific guidance is required please contact HTA Ltd for advice.

Curing

HTA120 has a wide range of applications and is supplied and used globally. As such, we advise contact is made to seek advice on the prevailing conditions and application requirements as to curing times.

VOC Content

1.1% (weight percent) of components (11g/l) considered VOC under the:

DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions (integrated pollution prevention and control) repealing European Council Directive 1999/13/EC with effect from 7 January 2014.

1.5% (weight percent) of components (16g/l) considered VOC under the:

DIRECTIVE 2004/42/CE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

These VOC assessments are based on the theoretical evaluation of the information provided by our suppliers and the knowledge of our materials. Please note that since we do not specifically analyse our products for total VOC content we cannot guarantee or warrant specific limits.

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Characteristics:

TYPICAL UNCURED PROPERTIES

<u>Property</u>	<u>Value</u>	<u>Test Method/Standard</u>
Specific Gravity	1.04	
Application Rate, ml/10sec	7-12(at 2.5 BAR)	
Sag	Non sag	ISO 7390
Tooling Time (minutes)	5-20	
Tack Free Time (minutes)	6-120	
Full Cure	3-5mm per day 23C @50% rH	
Application temperature	+5C 60 +60C	

TYPICAL CURED PROPERTIES

<u>Property</u>	<u>Value</u>	<u>Test Method/Standard</u>
Hardness, Shore A	25	ISO 868
Tensile Strength at Break	1.7	ISO 37 rod S1
Modulus @ 100% Elongation, MPA	0.5	ISO 37 rod S1
Elongation at Break, %	400	ISO 37 rod S1
Temperature Resistance	test dependant	
Recovery 100% Extension	95%	ISO 7389
Water Vapour Permeability (2mm Film) g/M2d	23	
Tear Strength	4.0n/MM	ISO 34, METHOD C

