



HYGIENIC SILICONE SEALANT

Issue – HSS/0802

**HIGHLY FLEXIBLE
FULLY WATERPROOF**

**SUITABLE FOR USE ON
FOOD PREPARATION AREAS**

**CONFORMS TO US FDA
REGS 21/CFR 1772600**

DESCRIPTION:

HYGIENIC SILICONE SEALANT is a high modulus; acetoxy cure; cartridge applied silicone sealant, available in **WHITE** and conforms to BS 5889 Type B. This fast curing product easily extrudes from a cartridge with minimal gun hand pressure and will form a waterproof, highly elastomeric permanent seal joint around kitchen and bathroom fittings; sanitary ware; ceramic tiles; worktops and stainless steel fittings. HYGIENIC SILICONE SEALANT conforms to the requirements of the US Food and Drug Agency requirements for resisting the growth of surface moulds, mildew and many other potentially harmful organisms, which may develop in areas where the highest standards of hygiene and cleanliness are required such as kitchens and medical rooms.

PREPARATION:

Ensure all joint areas, voids and contact surfaces are dry, clean and free from dirt, grease and loose surface coatings and that all joints and surrounding areas have been treated with a suitable sanitary cleaner. Check that any bitumen-based materials are not in a position, which requires a bond, or contact with the sealant. Use a sharp knife to cut off the tip of the cartridge, whilst leaving sufficient thread in place to engage with the nozzle. Cut the nozzle tip at a 45° angle and at a point to give the required joint width. (Usually 6mm for most sealing applications). This product is not recommended for use on porous surfaces (such as bare timber or plaster), nor is it suitable for use in aquaria.

APPLICATION:

Fit the cartridge into a suitably sized skeleton gun and slowly, but consistently extrude the sealant into the joint, whilst at the same time drawing the cartridge along the line of the joint to ensure even placement. In deep bed applications such as movement joints (> 10mm), it is advisable to insert a PU foam backer strip to control joint depth adhesion to the background substrate. HYGIENIC SILICONE SEALANT can be smoothed into the joint within 5 minutes of application using a lightly dampened pallet knife, or similar tool to give a blemish-free even surface. HYGIENIC SILICONE SEALANT has a tack-free time of about 6 minutes and will start to form a durable skin after about 25 to 30 minutes and depending on joint depth and site conditions will take about 24 hours to achieve complete cure through the joint (typically at a rate of 3mm / 24 hours).

COVERAGE:

HYGIENIC SILICONE SEALANT will seal linear joints up to the following length, when consideration is given to both the width and depth of the joint to be filled. In deep movement joints it is advisable to use PU backer foam strips to maximise sealant output:

# cure thru time is about 3mm every 24 hours	JOINT WIDTH IN mm	JOINT WIDTH IN mm				
		6	12	15	20	25
JOINT DEPTH IN Mm	3	17	8.5	6.8	5.1	4.1
	6	9	4.5	3.6	2.7	2.2
	8	6.6	3.3	2.6	2.0	1.6
	10	5.2	2.6	2.1	1.6	1.3
	12	4.4	2.2	1.7	1.3	1.1

The coverage rates shown in the above table are for guidance purpose only and do not take into full consideration the effects of site conditions and wastage when the tiled face is cleaned and polished.

TECHNICAL SUMMARY:

% ACCOMMODATION:	ELONGATION:	DENSITY:	SERVICE TEMPS:	TENSILE STRENGTH	FULL CURE TIME:
+ / - 25 %	Up to 500%	1.04	- 50°C up to 200°C	2.5 Mpa	1 - 4 days (#)

STORAGE & PACKAGING:

HYGIENIC SILICONE SEALANT is supplied in standard cartridges (25 per case) and has a storage life of not less than 12 months if kept in dry, un-opened conditions. Consult the HYGIENIC SILICONE SEALANT material safety data sheet for advice on handling and safety procedures.

Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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SUBSTANCE IDENTIFICATION:

HYGIENIC SILICONE SEALANT

COMPOSITION:

Polydimethyl siloxane; acetoxysiloxane cross linker; fillers and auxillaries - liberates acetic acid < 2%.

CAS No. 000064-19-7

HAZARDS CLASSIFICATION:

Not applicable

Keep locked up and out of reach of children
Wear suitable gloves and eye/face protection
If swallowed do not induce vomiting – seek immediate medical assistance. Avoid contact with skin and eyes.

FIRST AID MEASURES:

INHALATION:

Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.

SKIN CONTACT:

Wash off skin immediately with warm soapy water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.

INGESTION:

Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet.

EYE CONTACT:

Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

FIRE FIGHTING MEASURES:

NON FLAMMABLE

Recommended extinguishers – not applicable to product, but plastic packaging will burn
Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes.
Special procedures – Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product.

ACCIDENTAL RELEASE MEASURES:

Absorb and scrape spillages onto sand, sawdust or absorbent granules and confine residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for non-hazardous building products. Consult protective Equipment section for advice when handling spillages.

HANDLING & STORAGE:

Handling: Ensure adequate ventilation and use all recommended personal protective equipment
Storage: Store in well-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment at temperatures always below 30°C.

EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT:

Occupational exposure limit – (acetic acid) – 10 ppm 8hr TWA

Respiratory: Good ventilation is required otherwise use an organic vapour filtered face-mask or powered respirator when in confined spaces.

Hand: Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 1 hr.

Eye: **BS 2092** Goggles or a full face visor should be worn for all applications to prevent accidental face/eye contact

Skin: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately.

SAFETY DATA SHEET No. 061H – issue date 29-06-02

PRODUCT: HYGIENEIC SILICONE SEALANT

PHYSICO-CHEMICAL PROPERTIES:

Appearance – Viscous, thixotropic paste
Boiling point range – n/a
Water solubility – readily disperses with water
Auto ignition temp – 400°C
Specific gravity 0.99 – 1.3 (clear to colours)
Miscibility – Slight only in solvents

Vapour pressure – n/a
Odour – pungent vinegar like odour
Flash point - NON FLAMMABLE
Vapour pressure (air =1) n/a
Viscosity > 5,000 cps
PH – n/a

STABILITY & REACTIVITY:

Stable – No dangerous chemical reactions known.
Materials to avoid – Oxidising agents & strong alkalis. Conditions to avoid – elevated temperatures.

TOXICOLOGICAL INFORMATION:

Routes of exposure – Inhalation, skin contact and ingestion.
Health effect – severe skin irritation and destruction of internal mucous membranes
Acute effects of inhalation – coughing and eyes watering.
Acute effects of skin contact – burns and ulceration.

Acute toxicity: Skin irritation
Corrosivity: N/A

Sensitisation: dermatitis
Mutagenicity: n/a

Carcinogenicity: N/A
Reproductive toxicity: n/a

ECOLOGICAL INFORMATION:

Bio-accumulative potential – will not be degraded naturally.
Ecotoxicity: n/a
Environmental Persistence – > 50 years

DISPOSAL CONSIDERATIONS:

Unused product and freshly contaminated application materials must be disposed of in accordance with local authority regulations for general building waste.

TRANSPORT INFORMATION:

Not subject to ADR / IMDG and ICAO regulations.

REGULATORY INFORMATION:

CHIP Hazard symbols: N/A

Safety phrases: S2/7 – S24/25 – S36/37/39.

Other regulatory controls: Health & Safety @ Work Act 1974;
Control of Substances Hazardous to Health Regulations 1994. Environmental Protection Act 1990.

FURTHER INFORMATION:

The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.