

TECHNICAL DATA SHEET

B222 SCREWLOCK

DESCRIPTION

B222 Screwlock is a Thixotropic Anaerobic Threadlocker of Low Strength designed for easy disassembly of treated components. B222's Anaerobic nature allows it to cure only when confined between metal parts.

APPLICATIONS

All small fasteners, where vibration loosening prevention and non leakage through threaded fastening is required. Ideal on small set screws, brass and most types of small threaded nuts, bolts, screws, hex and slot driven components including keyed fasteners etc.

USEFUL HINTS/NOTES

B222 is suitable for most applications, however, we produce a same strength but lower viscosity (for small gaps) version Type B221 and a thicker, very viscous type B225 for larger gaps.

RECOMMENDATION

Not recommended without trials on certain Plastics, as stress cracking can sometimes result.

Some anti-corrosion chemicals inhibit the cure system in this type of Anaerobic. Trials are recommended where cleaning is necessary to establish performance.

INSTRUCTIONS FOR USE

Ensure parts are clean, dry and free from oil and grease.

PROCEDURE FOR APPLICATION

Product is normally hand applied from the bottle.

COMPATIBLE

ACCELERATORS/PRIMERS

Primers such as B7471 (Standard Anaerobic Activator) or the faster B7649 Structural Accelerator can be used, however, up to 30% strength loss can occur when using accelerators.

STORAGE

Store in a cool area out of direct sunlight.

Shelf Life >12 months at ambient temperature.

TECHNICAL FEATURES

Resin.....Dimethacrylate
Colour.....Purple White tint
Cure Speed With Activator.....<15 mins @ 20°C
Cure Speed Without Activator.....15 minutes
Viscosity; Brookfield Sp3@20rpm.....1200 cps (thixo)
Sp3@20rpm.....5000cps
Gap Fill/Max Threadform.....0.5mm/M36
Flash Point.....>100°C
Shelf Life.....36 months @ 20°C
Specific Gravity.....1.06

CURED PERFORMANCE

Full Cure Time.....12 hours @ 20C
Typical Strength:..ISO10964.....6Nm M10's
Range of Strength Breakaway.....4N.m up to 12N.m
Prevaling.....2N.m up to 6N.m
DIN54454 Breakloose:.....10N.m max 20N.m
DIN54454 Prevaling:.....6N.m up to 20N.m

ELEVATED TEMP/RETAINED STRENGTH

M10MSNB cured @ 22°C for one week.

150C	35%
100C	50%
50C	80%

SOLVENT RESISTANCE OVER 1000 HRS

iii Trichloroethane	100%
Brake Fluid	>95%
Motor Oil @ 125C	95%
Petrol	>95%
Glycol Mixture @ 87C	>80%

PRESENTATION

Bottles:.....25ml, 50ml, 250ml
and 25ml and 50ml clam packs.

HEALTH & SAFETY IN USE

IRRITANT: Contains Methacrylate Esters and some products contain small amounts of Acrylic Acid.

Irritates eyes, the respiratory organs and the skin. In case of contact with the skin wash immediately with plenty of water.



SAFETY DATA SHEET

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Revision No. 0
Revision Date

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name B222 SCREWLOCK

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Conc.	CAS	EINECS	Risks
DIMETHACYLATE	< 100%	109-16-0		Xi;R43

3. HAZARDS IDENTIFICATION

Most important hazards May cause sensitization by skin contact.

4. FIRST AID MEASURES

Skin contact Irritating to skin. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Eye contact Irritating to eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Inhalation Irritating to respiratory system. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Move to fresh air. Consult a physician after significant exposure.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Consult a physician if necessary. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Carbon dioxide (CO₂).

Specific hazards Burning produces obnoxious and toxic fumes.

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Use personal protective equipment.
Environmental precautions	Do not let product enter drains. Prevent further leakage or spillage.
Methods for cleaning up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Ensure adequate ventilation or exhaust ventilation in the working area. Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	PVC or other plastic material gloves.
Eye protection	Goggles.
Skin and body protection	Wear chemical protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Violet.
Odour	Characteristic.
Boiling point/range	100°C
Flash point	150°C
Flammability (solid, gas)	LOW
Water solubility	decomposes in contact with water..
Melting point/range	-10°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
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11. TOXICOLOGICAL INFORMATION

Acute toxicity	May cause sensitisation by skin contact.
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12. ECOLOGICAL INFORMATION

Ecotoxicity effects No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Further Information Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling The product is classified and labelled in accordance with Directive 1999/45/EC. The product is classified in accordance with Annex VI to Directive 67/548/EEC.

Symbol(s) Xi - Irritant



R-phrases R43 - May cause sensitization by skin contact.

S-phrases S24 - Avoid contact with skin.
S37 - Wear suitable gloves.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 R43 - May cause sensitization by skin contact.

Further information The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.