

STEAMSEAL

Foliac high pressure pipe sealant with graphite and manganese

Product Overview

ROCOL® STEAMSEAL is a graphite & manganese compound giving efficient sealing for ferrous pipework.

ROCOL STEAMSEAL is a high pressure, setting pipe sealant for metallic threaded and flanged joints.

Typical Applications

ROCOL STEAMSEAL is primarily designed for the sealing of high pressure steam, air & water joints.

Features and Benefits

- ROCOL STEAMSEAL has an excellent temperature range from -20°C to +600°C.
- ROCOL STEAMSEAL can resist pressures of up to 193 bar (2800 psi).
- Joints sealed with ROCOL STEAMSEAL are easy to break and clean.
- ROCOL STEAMSEAL sets hard but is flexible enough to resist vibration, thermal expansion and contraction of pipework.
- ROCOL STEAMSEAL is compatible with foam forming leak testers such as ROCOL Leak Detector Spray.

Directions for Storage and Use

- ROCOL STEAMSEAL should not be applied in sub-zero temperatures. Ensure surfaces are clean and free of contaminants then apply with a brush.
- Joints should be assembled within 5 minutes of applying ROCOL STEAMSEAL
- Pressure testing should only be carried out after the PJC has been allowed to dry for a minimum of 24 hours at an ambient temperature of 20°C-25°C. Drying time will be considerably lengthened if the ambient temperature is lower.
- Do not leave a fillet of sealant on the outside of the joint as this can drastically slow down the drying time.
- Hemp or other substitute fillers can be used on poor fitting joints, however, the STEAMSEAL must be applied to the male thread first, followed by the filler and then another coating of STEAMSEAL so that the filler is captive inside the STEAMSEAL.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 2 years from date of manufacture.

Pack Sizes

Pack Size	Part Code
400g	30042

STEAMSEAL

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Property	Test Method	Result
Appearance	Visual	Dark grey compound
Unworked Penetration	IP 50 – ASTM D217	310 - 340
Base Type	N/A	Linseed oil
Solids	N/A	Graphite & manganese
Temperature Range	N/A	-20°C to +600°C
Pressure Resistance	N/A	193bar (2800 psi)

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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BS EN ISO 9001
Certificate No. FM 12448



BS EN ISO 14001
Certificate No. EMS 67596



OHSAS 18001
Certificate No. OHS 78173



INVESTORS
IN PEOPLE



SAFETY DATA SHEET
FOLIAC MANGANESE PJC (STEAMSEAL)

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Compilation date: 30/11/2011
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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FOLIAC MANGANESE PJC (STEAMSEAL)
Synonyms: STEAMSEAL

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Jointing compound.

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL
ROCOL House
Swillington
Leeds
West Yorkshire
LS26 8BS
ENGLAND
Tel: +44 (0) 113 232 2700
Fax: +44 (0) 113 232 2740
Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: No significant hazard.

Precautionary phrases: Contains methyl ethyl ketoxime. May produce an allergic reaction.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous ingredients:

MANGANESE DIOXIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-202-6	1313-13-9	Xn: R20/22	Acute Tox. 4: H332; Acute Tox. 4: H302	10-30%

WHITE SPIRIT (CONTAINS LESS THAN 0.1% BENZENE)

265-185-4	64742-82-1	-: R10; Xn: R65; N: R51/53	-	1-10%
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Contains: METHYL ETHYL KETOXIME

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: No symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Alcohol or polymer foam. Dry chemical powder.
Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

[cont...]

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6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

WHITE SPIRIT (CONTAINS LESS THAN 0.1% BENZENE)

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	100 ppm / 575 mg/m ³	125 ppm / 720 mg/m ³	-	-

8.2. Exposure controls

Respiratory protection: Respiratory protection not normally required.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Black

Odour: Barely perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Highly viscous

Flash point°C: > 200

Autoflammability°C: > 200

Relative density: 1.86

[cont...]

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9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: Not applicable.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

[cont...]

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12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Compiled in accordance with REACH.

Phrases used in s.2 and 3: H302: Harmful if swallowed.

H332: Harmful if inhaled.

R10: Flammable.

R20/22: Harmful by inhalation and if swallowed.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.