

Sentinel X400

System Restorer & Cleaner for Commercial Heating and Closed Cooling Systems

Features & Benefits

- Ideal for “planned” maintenance programmes
- Effectively removes settled sludge
- Helps restore circulation
- Restores system effectiveness
- Suitable for all metals including aluminum
- Easy to handle
- Neutral PH-no neutralisation procedure needed
- Manufactured under a quality system conforming to ISO9001

Application

Sentinel X400 has been formulated for the effective cleaning of heating circuits and closed cooling systems where there is a significant build-up of corrosion sludge.

Sentinel X400 lifts and disperses old corrosion debris. It is ideal for use during a scheduled cleaning operation prior to when a new boiler or component is to be fitted to an existing system, or where radiators have cold areas or are partly blocked due to sludge build up.

Sentinel X400 is a non-acid formulation that can be used in all types of indirect heating systems including those containing aluminium components.

Dosing & Feeding

Sentinel X400 should normally be dosed at 1% of system volume, i.e. 1 litre per 100 litres of system water. For systems with severe fouling the dosage rate can be increased up to 5%. The circulation pump of the system can be used to circulate the X400 solution; however equipment which provides a more rapid circulation can produce a more effective clean. When using an external cleaning rig the product can be dosed directly to the buffer tank of the rig (follow equipment manufacturer's instructions).

Sentinel X400 should be circulated, preferably at normal operating temperature, with all valves open and the pump turned to maximum flow for a minimum period of 3 hours.

Where systems are badly fouled, a longer period of circulation (e.g., up to 4 weeks) is recommended, but the product will not clear a completely blocked pipe. There is no limit to the time for which the product can safely be left in the system.

After cleaning, the system should be drained and flushed until the water runs clear*. On refilling, the system should be treated with Sentinel X100 inhibitor, or Sentinel X500 inhibited antifreeze.

Feed the product as follows:

External flushing rig: Feed the product in an area of adequate flow in the buffer tank. Follow the machine manufacturer's instructions.

Open heating systems: Feed the product into an area of adequate flow or use a by-pass feeder.

Closed heating & cooling systems: If the system is empty, add the product to any convenient point before filling. If the system is full, use a pressure dosing vessel to inject the product into the system.

It is recommended that Sentinel X400 is used in accordance with standard cleaning and commissioning protocols such as BSRIA Guide “Pre-Commission Cleaning of Pipework Systems” or similar Water Treatment Guidelines from industry organisations such as the Industrial & Commercial Energy Association (ICOM).

Physical Properties

- Appearance: Clear yellow to amber liquid
- Odour: Mild
- Specific gravity: 1.04 (20°C)
- pH (concentrate): 7 (approx.)
- Freezing point: -8°C

Packaging

- 10 litre cubitainer
- 20 litre cubitainer

**Note: Always dispose of spent cleaning solution according to local regulations.*

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The information below enables compliance with the Control of Substances Hazardous to Health Regulations. A full Safety Data Sheet is available upon request.

System Restorer & Cleaner for Commercial Heating and Closed Cooling Systems	An aqueous solution of synthetic organic polymers.
Health Hazards	Not for use in potable water systems. Not considered hazardous to health.
Handling	Avoid contact with skin and eyes. Keep out of reach of children and animals. Wash out empty container thoroughly with water before disposal.
Storage	Keep container tightly closed. Store in cool, well ventilated area.
Spillage	Flush spillage with plenty of water and wash to waste.
Fire/Explosion Risks	Non-flammable
First Aid	Skin Exposure : Wash immediately with plenty of water. If irritation develops, seek medical attention. Eye Exposure : Flush immediately with plenty of running water. Keep eyelids apart. Seek medical attention. Ingestion : Give plenty of water to drink. Do NOT induce vomiting! Seek medical attention.

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