

## Sentinel X400 High Performance Cleaner

Thorough cleaner for systems older than six months

To remove built-up magnetite sludge, to restore circulation to radiators and pipework and to prepare for the installation of new components, major boiler manufacturers recommended that older systems should be cleaned with Sentinel X400 High Performance Cleaner.


- **High cleaning power**  
Restores system circulation and system effectiveness
- **High performance dispersants**  
Penetrate and lift stubborn sludge ready for removal from system
- **Long acting formula**  
Holds sludge in suspension for up to approximately 3-4 weeks, ideal for pre-dosing
- **Boiler manufacturer recommended**  
Meets commissioning requirements of boiler manual to minimise risk of invalidating boiler warranty



**Minimum  
2 hour  
clean**



**1L bottle suitable  
to treat typical  
domestic system**



**Also available in  
10 & 20L, Rapid-Dose,  
and Concentrate**



**Dose easily with  
dosing adapter  
or dosing vessel**



### The Sentinel System

Lifetime protection for heating and hot water systems using the best practice process of...



**CLEAN**  
WITH  
APPROPRIATE  
CLEANER



**PROTECT**  
WITH X100  
INHIBITOR



**MAINTAIN**  
WITH  
TEST KIT

## Application

Sentinel X400 has been formulated for the effective cleaning of existing central heating systems where there is a significant amount of corrosion debris. Sentinel X400 disperses old corrosion products. It is ideal for use where a new boiler or pump 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 pH-neutral formulation that can be used in all types of indirect heating systems including those containing aluminium components.

## Dosing

1 litre of Sentinel X400 is sufficient to treat a typical domestic system of 8 to 10 radiator panels. Larger systems should be dosed with 2 litres. To clean an existing system in accordance with BS7593, 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 2 hours or until satisfactory performance is restored. Where systems are badly fouled, a longer period of circulation (approximately 3-4 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. Rapid cleaning may be carried out if Sentinel X400 is used in conjunction with a power-flushing device. Flush the system before refilling and dosing with Sentinel X100 inhibitor or Sentinel X500 Inhibited Antifreeze.

- Open Systems:** Dose via F&E cistern, via a by-pass feeder or use a Sentinel Dosing Vessel.  
**Sealed Systems:** If the system is empty, add to any convenient point before filling.  
If full, use a Sentinel Dosing Vessel to inject via the filling loop or other access point.

## Physical properties

- Appearance:** Yellow to brown liquid  
**Odour:** Mild  
**Specific gravity:** 1.02 (20°C)  
**pH (concentrate):** 7 (approx)  
**Freezing point:** -1°C

## Safety precautions

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

<b>Description</b>	<b>High Performance Cleaner for Central Heating Systems</b> An aqueous solution of synthetic organic polymers and other speciality ingredients.
<b>Health hazards</b>	Not for use in potable water systems. Not considered hazardous to health.
<b>Handling</b>	Avoid contact with skin and eyes. Keep out of reach of children and animals. Wash out empty container thoroughly with water before disposal.
<b>Storage</b>	Keep container tightly closed. Store in cool, well ventilated area.
<b>Spillage</b>	Flush spillage with plenty of water and wash to waste.
<b>Fire/explosion risks</b>	Non-flammable
<b>First aid</b>	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 advice. Ingestion: Rinse mouth with water. Do NOT induce vomiting! Seek medical advice.

The use of Sentinel water treatment is endorsed by the industry's major international manufacturing companies\*



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