



ReDiant® H7 Central Heating Protector

SCALE AND CORROSION INHIBITOR

ReDiant® H7 Protector is a liquid scale and corrosion inhibitor designed for water treatment of domestic central heating systems.

Description

Protector H7 delivers long-term protection of central heating circuits against internal corrosion, sludge, and scale formation. It is a specially designed mixture of functional organic and inorganic components which are best for heating system protection. The product is suitable for all types of heating equipment like boilers running on solid, gaseous, and liquid fuel, air to water, and geothermal heat pumps, as well as radiators, and pipework of the systems. The inhibitor is compatible with all metals and non-metallic materials commonly used in central heating systems – mild (carbon) and stainless steel, aluminium, copper and brass, rubber materials, etc.

Protector H7 is designed to work with tap, softened, and demineralized water. Moreover, the inhibitor possesses pH buffering ability to contain the system water pH in the range of 6.5–8.5 maintaining the optimum pH conditions for multi-metal protection.

The ReDiant® H7 does not contain highly hazardous materials such as carcinogenic borates, poisonous nitrites, environmentally persistent EDTA, as well as water pollution causing nitrates and phosphorus. The presence of phosphate can block wet bearings of circulator pumps and damage rubber parts.

Advantages

- Concentrated – 500 ml is sufficient for a 130 litres volume system
- Long-term protection
- Buffering properties – not allow pH to rise or drop significantly
- Free of borates, nitrates, nitrites, EDTA, and phosphorus
- Formulated for multi-metal system protection
- Effective in hard, softened, and demineralized water
- Quick and easy control with the “Molybdate test strips”
- Non-hazardous mixture according to Regulation (EC) No. 1272/2008
- Ensures the efficient work of heating systems
- Allows avoiding heating systems breakdown
- Reduces maintenance costs

Physical data

Appearance	Pale yellow liquid
Density (at 20 °C)	1.11 ± 0.05
pH	7.6 – 8.1
Freezing point	- 8 °C
Soluble in water in all proportions	

Dosage recommendations

500 ml of ReDiant® H7 Protector will treat systems up to 130 litres in volume (up to 16 radiators or 250 m² of underfloor heating). It is important to clean the heating system with ReDiant® C5 Cleaner before adding the inhibitor. For open heating systems, pour the inhibitor in through the

expansion tank; for sealed systems, it should be added via the fill hose, radiator, coil, or magnetite filter.

The recommended dosage of H7 Protector is 3500 g/m³, but in case of overdose, the protection of heating systems becomes even better. The maximum recommended concentration of the product is 8750 g/m³ in the heating system. The dosage control is carried out by keeping the residual concentration of molybdates MoO₄²⁻ in the range of 100–250 ppm (mg/l). It is necessary to check MoO₄²⁻ concentration annually. The dose of ReDiant® H7 can be checked by using ReDiant “Molybdate test strips” – a quick and easy colorimetric method to determine the concentration of the molybdates.

Health and Safety

Avoid contact with skin and eyes. Keep out of the reach of children.

Contains: *reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3:1).* May cause an allergic reaction.

Packaging and Handling

ReDiant® H7 Protector is packed in **500 ml** volume bottles. It is recommended to be stored at temperatures above freezing. Provided it is stored properly and is kept tightly sealed a shelf life of at least two years in its original packaging.

[Read Material Safety Data Sheet for detailed handling and storage precautions.](#)