

MULTISEAL HR:

Multiseal HR is a highly concentrated cleaning fluid for heating systems - it contains different inhibitors which allows it to be used on all heating systems also heating systems with integrated aluminium parts. Multiseal HR removes rust, lime and sludge deposits in heating systems, thus improving the performance of the system. Multiseal HR can be used in connection with a modernization of old plants and for general cleaning of the existing heating systems. Multiseal HR requires that there is a closed circuit, and at systems heated with district heating a closed loop must first be established before the product can be used.

DIRECTIONS:

Before using Multiseal HR please control the product PH-value: PH1. The heating system to be added Multiseal HR must be free of sealants, other inhibitors and other corrosion protection fluids. When using the product correctly no damage to pumps and valves will occur. During the cleaning process where Multiseal HR dissolves e.g. lime sediments, gases may be developed. It is therefore important to ensure sufficient ventilation to the heating system while it is cleaned.

If there is much sludge and impurities in the heating system, the heating system must be flushed thoroughly and filled with clean water. All fittings and valves affecting the heating circuit are now opened completely. Multiseal HR is pumped into the heating water in the required quantity (1 Liter Multiseal HR per 100 Litre system water) and the circulation pump is started to achieve an optimal distribution and cleaning. The product must remain in the heating system in 2 to 4 days and the plant operating temperature in this period must not exceed 60 °C. When the cleaning process is finished, empty the heating system completely and flush thoroughly with clean water. For larger older plants a sludge trap should be built in. For floor heating systems with a small flow of system water MULTISEAL HR may be used at a little higher concentration. After the cleaning process has been finished and the heating system has been refilled with water, e.g. Multiseal K 32 or Multiseal FS may be added to the system.

If Multiseal HR is used for descaling of heat exchangers, HR is used diluted 1:1 with water, and circulated through an external cleaning pump directly into the heat exchanger until a sufficient de-scaling is achieved. After descaling collect HR and water in a suitable container, and heat exchanger and pump is now cleaned through with several changes of clean water. Alternatively, connect the heat exchanger directly to the water supply through the cleaning pump. The return water is discharged to sewer. It is recommended to flush the heat exchanger in this manner at least 10 minutes.

Multiseal HR must immediately be removed from objects outside of the pipe system using plenty of water. Multiseal HR may not be used in the heating systems which are filled with sealants or antifreeze products.

Safetydata for Multiseal HR:

Wear safety goggles when working with MULTISEAL! By eye contact: Rinse immediately with plenty of water. Spills on clothing are removed easily at normal temperature machine wash. NOTE! To avoid falls and silicate sediments any spill of MULTISEAL has to be washed of immediately. Store out of reach for children.

R36	Irritates the eyes
S 51	Should only be used in well ventilated spaces.
S 26	By eye contact: Rinse immediately with plenty of water and seek medical advice
S 25	Avoid eye contact with the product

DISPOSAL:

The product may be discharged to the sewer system in highly diluted form – please refer to the safety data sheet.

Composition:

Citric acid, corrosion inhibitors

Mixing ratio:

1 Litre Multiseal HR for 100 Litre system water

Shelf Life:

2 years from date of manufacture.

Protect against frost.

Store cold and dry.

Attention:

The above information is given on basis of tests and experience. As we do not have the control over the usage of the product, it is the installer who has to make sure, that the product is suitable for the intended use or installation.