MULTISEAL 30E

Multiseal 30E liquid seal eliminates water losses in heaters, boilers, pipes, radiators and floor heating systems heated by gas boiler, oil burner or combi-ovens. Water loss up to 30L a day may be repaired. Not suitable for district heating systems as the product must remain in the system.

Multiseal 30E seals every known materials (plastics, metals, presfittings) used in heating systems. Multiseal 30E is forming an elastic seal. Seals water loss of up to 30L a day. Multiseal 30E must remain in the system after the end seal. A seal with Multiseal is dynamic but permanent and durable. Multiseal 30E filled via a filling pump into the boiler.

INSTRUCTIONS

General
The heater must be free of additives, such as frost protection, corrosion protection and sludge. When used correctly Multiseal 30E creates no damage to the circulation pump and valves. For leaks in boiler combustion chambers use Multiseal 24, Multiseal Special or Multiseal TD.

Leaky heating system:
Sieves, dirt catchers, filters and heat meters have to be disconnected from the system before conducting the sealing. Heater must be vented and filled with water before sealing begins.
The systems max. temperature is set with the chimney sweep button. All heater and mixing valves have to be opened completely. Circulating pump has to be vented thoroughly and put into operation. Water equal to twice the amount Multiseal 30E to be added has to be taped and colleted from the system (see table). Shake the bottle with Multiseael 30E thoroughly. Pump the necessary amount of 30E diluted 1:1 with water into the system entering through the boiler filling and drain valve. The system is filled to normal operating pressure. Circulating pump purged again thoroughly via the control screw. The system should now remain in operation for seven hours under the described conditions. Refit all the disassembled parts (not filters and strainers!). The actual seal occurs during one or more days. Multiseal 30E must remain in the system and a constant minimum circulation of the water system should be maintained.

Safety data for Multiseal 30E:
If Multiseal 30E comes into contact with eyes, rinse immediately with plenty of clean water and seek medical advice. Skin contact: Wash skin immediately with plenty of water. When working with Multiseal 30E wear suitable protective gloves and goggles or face shield. Multiseal 30E is non-toxic (but should not be digested) in the specified dilution. Moreover, observe the usual precautions when handling chemicals. Keep out of reach of children

Disposal:
By depletion of heating systems filled with Multiseal 30E the system water may be treated as ordinary water and discharged into sewers.

Composition:
Fibres, preservatives and other additives - see safety data sheet.

Mixing Ratio:
1.0 liters to 100 liters of heating system water.

Shelf Life:
Two years from date of manufacture - protected from frost!

Dosing instructions for Multiseal
The heating plants approximate water content may be derived from the following table. Newer heating system operates with a relatively small amount of water and may be measured accurately by draining the heating water and measured in liters.

Conventional heating plant: For each 1000 kcal/h (0 1,16 kW)	
a) Convectors = 6 liter water for about 38 kW = 2 liter MULTISEAL for about 77 kW = 4 liter MULTISEAL for about 116 kW = 6 liter MULTISEAL for about 155 kW = 8 liter MULTISEAL	c) Radiators (Cast Iron) = 14 liter vand for about 17 kW = 2 liter MULTISEAL for about 33 kW = 4 liter MULTISEAL for about 50 kW = 6 liter MULTISEAL for about 66 kW = 8 liter MULTISEAL
b) Plate Iron Radiators = 10 liter vand for about 23 kW = 2 liter MULTISEAL for about 46 kW = 4 liter MULTISEAL for about 70 kW = 6 liter MULTISEAL for about 93 kW = 8 liter MULTISEAL	d) District heating pipe for about. 12 kW = 2 liter MULTISEAL for about 23 kW = 4 liter MULTISEAL for about. 35 kW = 6 liter MULTISEAL for about 46 kW = 8 liter MULTISEAL

Underfloor heating systems:	
a) Only floor heating without radiators: per. 100 m2 habitation about 150 L plant water for about 130 m2 = 2 liter MULTISEAL for about 260 m2 = 4 liter MULTISEAL for about 390 m2 = 6 liter MULTISEAL for about 520 m2 = 8 liter MULTISEAL	b) floor heating with radiators: per. 100 m2 habitation about. 350 L plant water for about. 60 m2 = 2 liter MULTISEAL for about. 115 m2 = 4 liter MULTISEAL for about 170 m2 = 6 liter MULTISEAL for about 230 m2 = 8 liter MULTISEAL

Volume calculation in general:	
Black and galvanized pipes	
1m ¼" pipe = 0,06 L/M 1m 3/8" pipe = 0,12 L/M 1 m ½" pipe = 0,2 L/M 1 m ¾" pipe = 0,35 L/M 1 m 1" pipe = 0,6 L/M	1 m 1 ¼ " pipe = 1,00 L/M 1 m 1½" pipe = 1,30 L/M 1 m 2 " pipe = 2,20 L/M 1 m 2½ " pipe = 3,20 L/M 1 m 3 " pipe = 4,80 L/M
20mm PEX	
1m 20mm PEX = 0,2 L/M	We assume that 4M PEX tubing is used per M2 underfloor heating. This gives a volume of water of 0.8 L per M2 underfloor heating.

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.