



FACT SHEET No. 79

INFUSING ZOONO INTO ZEOLITE

When **Zoono Z-71 Microbe Shield** is used to treat water filtration media, it is important (for optimum, long lasting efficacy) to correctly infuse the Zoono antimicrobial into Zeolite filter media.

WHAT IS ZEOLITE?

Zeolite is a natural mineral created many years ago by volcanic ash falling into an alkaline water source and being put under pressure. The zeolite framework is that of a honeycomb network with pores and is one of the rare minerals that possesses a natural negative charge. This combination of a honeycomb structure and absorbent properties (plus the net negative charge), allows zeolite to both absorb liquids and adsorb compounds – hence its popularity as kitty litter.

There are about 40 different zeolite types and they vary due to the conditions during formation. In New Zealand, zeolites located in the Taupo Volcanic Zone of the Central North Island are predominantly mordenite and clinoptilolite – ideal for use with Zoono as an infused, water filtration / treatment media. Zeolite used as a filtration media, is usually the size of coarse sand.

WHAT IS ZOONO?

Zoono is a water-based antimicrobial product that dries to form a covalent bond with the surfaces. Once dry, the surface resembles a bed of microscopic 'pins' that attract, pierce and kill pathogens via 'lysis' – a principle similar to that of a pin popping a balloon. And, just as the balloon cannot be reformed once destroyed, the same applies with the pathogen – this means that the pathogen cannot develop any immunity to the Zoono active (the 'pin') and this also means that there is NO mutation and NO superbugs!

RECOMMENDED METHOD TO INFUSE ZOONO INTO ZEOLITE

1. The zeolite should be thoroughly dampened with a sprayed 1:50 dilution of **Zoono Z-55** concentrate and Deionised water.
2. Allow the (damp) zeolite to air dry for 24 hours.
3. Heat the zeolite for 2 hours at 110°C in a forced air oven (or a trommel). This process allows the reagent to cure and the honeycombed zeolite surfaces to develop a 'Zoono' antimicrobial coating.
4. Once dry, the zeolite is ready to use.

Please refer any queries to: www.germfree.com.au