



ZeoPlus is a naturally occurring mineral rock, found in areas where there has been historic volcanic activity. Its microporous structure and ammonia removal properties will significantly improve the quality of your swimming pool water.

- » Superior water clarity
- » Reduced chlorine demand
- » Reduced skin and eye irritations
- » Reduced "Chlorine" odour

Ideal for teaching pools, hydrotherapy pools and spas



#### **Dual Filtration**

ZeoPlus provides excellent mechanical filtration of suspended particles. In addition to trapping the larger particulates between the grains of the ZeoPlus (similar to the filtration mechanism of sand), ZeoPlus is also capable of filtering the smaller particulates by catching them within its micro porous structure and surface irregularities.

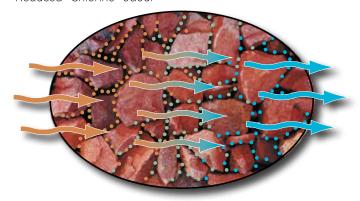
It is this dual filtration action that helps ZeoPlus achieves superior water clarity.

## **Ammonia Removal**

Ammonia is released in the water by bathers and when the ammonium ions mix with chlorine, chloramines are formed producing a "chlorine" odour as well as causing skin and eye irritations.

ZeoPlus will inhibit the formation of chloramines leading to:

- · Reduced Chlorine demand
- Reduced skin eye irritations
- · Reduced "Chlorine" odour



ZeoPlus is particularly suitable for teaching pools and hydrotherapy pools and spas, where the tendency to build up ammonia by products is strongest.

#### **Micron Deep Bed Filters**

Waterco recommends the use of its range of Micron Deep Bed Filters. The unique deep bed design of the filter enhances Zeoplus' advanced filtration properties.



## **ZeoPlus Physical and Chemical Characteristics**

Property	Specification	
Main Zeoplus Minerals	Mordenite and Clinoptilolite	
Nominal Product Size	- 2.2 mm + 1.0 mm	
Hardness (Moh Scale)	4.5 to 5.0	
Particle Specific Gravity	2.2/2.3	
Bulk Density	Around 1200 kg/m³	
Average Ammonia Exchange Capacity (meq/100g)*	~ 146	

# **Regeneration of ZeoPlus**ZeoPlus should be regenerated once it is saturated i.e. full of

ammonium. On an average pool this takes around 12 months, although heavily used spas and hydrotherapy pools may require regeneration sooner. ZeoPlus should be regenerated once ammonium level starts to increase. As a rule of thumb, regenerate ZeoPlus when the ammonium concentration of the outlet water is greater than 1 ppm. **Please note:** If ZeoPlus is not regenerated, it may lose its ability to adsorb ammonium. However, it will still perform effectively as a mechanical filter with a life span of up to ten years (depending on

#### **Regeneration Procedure:**

the frequency of backwash).

- 1. Backwash the filter as usual until the backwash wastewater is clear of particulates.
- 2. Isolate the filter.
- 3. Drain completely the water in the filter by opening the bottom drain plug and replace drain plug once finished.
- 4. Make up 200g/L of brine solution. Refer to example below to determine the required amounts of salt and water.
- 5. Pour the well dissolved brine solution into the filter until it completely covers the bed by about 40mm.
- 6. Mix solution into the media by agitating vigorously. Replace lid or MPV.
- 7. Leave it to soak overnight (for a minimum period of 12 hours). Once regeneration is complete the ZeoPlus bed must be rinsed with fresh water until the outlet water salt level or TDS is similar to the incoming water.
- 8. Turn the valve(s) to BACKWASH cycle. Run BACKWASH for 3 to 5 mins
- Run RINSE cycle for 3 minutes then select BACKWASH again, followed by RINSE for another 3 minutes. If the filter does not have a RINSE cycle, run BACKWASH for an extra 20 minutes.
- 10. Turn valve(s) to FILTER cycle. You are now ready to operate the ZeoPlus filter as before.

#### Note:

- Always turn off the pump before changing valve position.
- In heavily used spas and hydrotherapy pools, regeneration may be required sooner than 12 months.

### How much Brine is required?

To regenerate a Micron SD600 with ZeoPlus;

Filter Model	Tank Diameter (mm)	Overall Height (mm)	Bed Depth (mm)	Zeoplus (kg)
SD600	624	1135	500	166

- First calculate the volume of Brine required by determining the volume of Zeoplus in the filter (divide the mass of ZeoPlus (kg) by its bulk density of 1.21 kg/L).
  - > 166 kg / 1.21 kg/L = 137 litres of Brine required,
- If allowing extra 10 litres to adequately cover the filter media, 147 litres of Brine Solution is required.
- Now to make Brine solution of concentration 200 g/L, calculate the mass of salt required.
  - > 147L x 200g/L of Salt = 29,400g or 29.4 kg of salt
- Therefore add 29.4 kg of salt to 147 litres of water to produce the necessary amount of Brine to regenerate Zeoplus in the SD600 filter.

Salt 25kg - Waterco Code 35219232

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