



# ZODIAC

## What is PRS?

### Why sanitising alone is not enough?

Cryptosporidium is a leading cause of recreational water illness and can survive for days in swimming pools even with adequate chlorine levels.

The Premium Quality PRS system is a superior advanced polymeric treatment that keeps pools clear and pristine in conjunction with the use of a sanitiser. PRS effectively reduces turbidity by trapping particles with in all pool filter media.

Defining the outbreak Cryptosporidium or crypto is a microscopic, disease-causing pathogen that can be introduced into swimming pool water from swimmers who release faecal material in the water. Crypto can remain viable in normally chlorinated water for 6 to 7 days. When swallowed by swimmers, crypto can cause severe symptoms such as diarrhoea, stomach cramps, fever, nausea and vomiting for several weeks.



### How Swimmers Affect Water Clarity?

Every time we enter the water our bodies shed millions of small organisms that affect the clarity of pool water. These include:

- 38,000 micro-organisms released with 'clearing of the nose'.
- 100 million to 1 billion organisms from 1 spit of saliva into the pool.
- 1 Litre of perspiration released in the pool per hour.
- 5 million organisms shed from a single washing of the hands.
- One-tenth of a gram of faecal material containing millions of microbes such as chlorine resistant Cryptosporidium.

As a result this is the cause for concern to all users, to protect themselves from becoming prone to carrying or having Cryptosporidium. PRS is a counter attack to ensure this issue is not a problem.

### Why is PRS so unique?

PRS is a patented, two stage system proven to enhance filtration in pools, spas and hot tubs. PRS effectively traps Cryptosporidium, E.coli and Giardia in the filter. It's uses in the water can be broken down to four main points of protection.

- Reduces water's turbidity and recovery time, especially during peak bather loads
- Enhances filtration down to 0.5 micron
- Traps Crypto and E.coli in the filter
- Proven to reduce 99.9% of Crypto from pool water.



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## Enhanced Filtration as a Solution:

PRS works to enhance current filter capabilities using a two-stage biopolymer system. This enhanced filtration system can effectively trap Crypto, Giardia and E. coli in the pool's filter. PRS works on all types of filters. It should be used in conjunction with a sanitiser as another measure of protection in a total risk management program.

Evidence presented at the 2006 World Aquatic Health Conference demonstrated using a two-part polymer system such as PRS can enhance filter trapping of Crypto in sand filters.

## PRS:

- Effectively reduces turbidity, especially during high bather loads.
- Removes oil.
- Compatible with all filter technology.
- Enhances current pool, spa or hot tub filtration down to 5 microns.
- Traps E. coli, Cryptosporidium and Giardia in the filter.

## How to use PQ PRS:

PQ PRS can be used in any swimming pool.

For swimming pools with moderate daily use, add 120ml of PQ PRS per 75,000 litres. The frequency of use depends upon peak bather loads. Premium Quality PRS should be used when peak bather load is expected and after heavy use to reduce turbidity levels quickly, or for severe applications such as clean ups, extremely high turbidity and other tough water quality conditions. Double or triple the recommended dosage.