

COMMON POOL TREATMENT PROBLEMS

HYDRO[®]

DIOXIDE



Made and
developed
in the UK



This guide helps quickly identify the most frequent symptoms in private pools, spas, and public pools, and then direct the corrective action. It is based on how Hydro Dioxide[®] is a treatment solution, as it targets biofilms, chlorine-resistant pathogens, and improves water and air quality, by reducing chemical load.



Diagnostic logic

Before taking any corrective action, three levels of cause must be distinguished: analytical problem, hydraulic problem, and biological problem. We remind us that biofilms can form in pipes, tanks, and filters, repeatedly contaminate the water, clog the pipelines, and reduce the overall efficiency of the system.

The right approach is to first verify the consistency of the measurements, then check filtration and circulation, and only then apply corrective treatment. This helps avoid overusing products when the real source may be a biofilm, a miscalibrated probe, or insufficient filtration.

Diagnostic table

Observed symptom	Likely causes	Priority checks	Recommended action
Difference between the device probe and the measurement taken in the pool	Dirty probe, biofilm, poor calibration, aging probe, insufficient maintenance	Date of last calibration, probe condition, calibration solution, sampling point	Remove the biofilm upstream of the probe using 1–2 Hyrdro Dioxide® tablets in the pump prefilter or skimmer. Recalibrate the probe, check its condition, and validate the measurements before adjusting treatment.
Slippery floor or walls	Beginning of algae, biofilm, insufficient circulation, degraded filtration	Filter condition and cleaning, filtration time, circulation, dead zones, slimy deposits	Use Hyrdro Dioxide® to treat the biological cause (see dosage below), then brush, clean the filter, and reinforce filtration.
Dark green water or clearly visible algae	Presence of biofilm, insufficient disinfection, water imbalance, established algae	pH, disinfectant, TAC/TH if monitored, filtration quality, surface condition	Use Hyrdro Dioxide® (see dosage below) together with testing, brushing, sustained filtration, and calcium hypochlorite treatment if contamination is significant and the water is dark green.
Black algae	Strongly anchored colonization in biofilm, treatment too superficial	Embedded dark spots, shaded areas, coating condition	Apply 1 Hyrdro Dioxide® tablet directly to the area with vigorous brushing, a reinforced protocol, and thorough cleaning.
Mustard algae	Persistent algae, re-suspension followed by rapid redeposition	Yellow-brown deposits, recurrence after treatment, contaminated accessories	Use Hyrdro Dioxide® to treat the pool (see dosage below), accessories, and hydraulic circuit, combined with physical cleaning and overall water sanitation.
Foaming water	Soaps, organic waste, foaming algaecide, algae, soft water	Persistent foam, bather load, product history	Use 1 Hyrdro Dioxide® tablet, directly in the skimmer, to destroy the organic and biological load. Then analyze the water, correct the imbalance, and limit organic inputs, or use Hyrdro Dioxide® regularly.
Bad smell at the pool	Poorly treated water, chloramines, organic pollution	Strong odor, heavy use, user complaints, breathing comfort	Use Hyrdro Dioxide® (see dosage below) to improve sanitation, then correct the balance and ventilate indoor areas.

Observed symptom	Likely causes	Priority checks	Recommended action
Stinging eyes, irritated skin, with clear water	Chloramines, unsuitable chlorine level, poor water quality, heavy contamination, biofilm	Bather comfort level, use rate, water parameters, associated odor	Use 1 Hyrdro Dioxide® tablet, directly into the skimmer, to reduce the chemical load and disinfection by-products, restoring better balanced water with fewer irritating by-products.
Cloudy water or lack of clarity	Water imbalance, insufficient filtration, organic load, persistent contamination	Transparency, filter, filtration time, measurement consistency	Use Hydro Dioxide® (see dosage below), to treat the microbiological source, correct the parameters, maintain filtration, and remove deposits if necessary
Pool waterline gets dirty too quickly	Greasy deposits, high organic load, surface biofilm	Fouling frequency, type of use, surface condition	Use Hyrdro Dioxide® (see dosage below) to destroy organic and biological loads, then perform mechanical cleaning if needed.
Overconsumption of treatment products, with clear water	Poor analysis, persistent contamination, biofilm, insufficient filtration	Consumption history, repeated drift, measurement reliability	Use 1 Hyrdro Dioxide® tablet, directly in the skimmer, to reduce the chemical load and improve treatment efficiency.
Decline in equipment efficiency or suspected energy overconsumption	Fouling, biofilm, hydraulic obstruction, degraded performance	Pipes, heat exchangers, filter, operating time, general circuit condition	Use 1 Hyrdro Dioxide® tablet, directly in the skimmer, to clean and sanitize the network by destroying biofilms that clog pipes and reduce system efficiency.

Treatment dose

Pool						
Pool volume m ³	< 10 m ³	< 25 m ³	< 50 m ³	< 100 m ³	< 200 m ³	< 400 m ³
Domestic	1	2	3	5	10	20
Commercial	1	2	5	10	20	40

For heavy contamination, or Bacteria measurement, double the above dosage.

Spa			
Water volume m ³	Dose	Domestic use interval	Public use intervals
Up to 1.5 m ³	1 tablet	Monthly	Weekly
Up to 5 m ³	2 tablets	Monthly	Weekly

For heavy contamination, or Bacteria measurement, double the above dosage.

Other applications	Pool Balance Tank	General cleaning
Dosage	4 tablets	For heavy contamination
Application	1 tablet per 20 lts water	For floatation aids, covers, grating, mats, drains

For heavy contamination, or Bacteria measurement, double the above dosage.

Frequent cases

Slippery walls

Slippery walls and clear water often indicate an early phase of biological contamination: the pool is not yet visually degraded, but the surfaces already show active colonization.

Algae spreading

Algae and biological deposits can appear when maintenance is insufficient, circulation is poor, or the disinfectant level is not strong enough. The most useful action is to use Hyrdro Dioxide®, then brush immediately, check filtration, and treat the problem before it turns the water green.

Strong smell or taste of the water

A strong smell does not necessarily mean too much chlorine, but often the presence of chloramines and poorly controlled water. Several public-facing specialized sources directly link the strong odour, irritated eyes, and skin discomfort to these by-products of treatment. In this context, Hyrdro Dioxide® improves bathing comfort, reduces chemical load, and improves air quality, especially in indoor pools and spas.

Algae comes back too quickly

When algae return quickly after treatment, a structural cause should be suspected: biofilm in the circuit, dead zones, insufficient filtration, or an incomplete protocol. Biofilms continuously release bacteria and reduce system efficiency, which explains relapses despite superficial adjustments. The diagnosis must then go beyond the pool water itself and include the hydraulic network, accessories, and surfaces, using Hyrdro Dioxide®.

By pool type

Private pools

Private pools prioritize user comfort, water clarity, and fewer heavy corrective interventions. Hyrdro Dioxide® is especially useful when symptoms keep returning, surfaces become slippery, the water smells bad, or standard maintenance is no longer enough.

Spas

Spas combine high temperature, low volume, and a heavy organic load, which accelerates imbalances and biofilm formation. Hyrdro Dioxide® should therefore be used preventively against biofilm and bacteria that are difficult to eliminate in spas and swim spas.

Public Pools

In public pools, rental properties, hotels, and campsites, diagnosis must also account for hygiene, user turnover, the establishment's image, and operational continuity. Hyrdro Dioxide® is suitable for commercial uses, effective against biofilms and certain resistant pathogens, with a strong benefit for healthy water and long-term control of microbiological risk.

Key messages

- ✓ A visible problem is not always a dosing problem; it may come from a false measurement, a biofilm, or degraded hydraulics. Hyrdro Dioxide® is there to address it.
- ✓ Slippery walls, recurring algae, bad smell, or irritation often point to a biological cause or poorly controlled treatment by-products. Hyrdro Dioxide® strips the pool more completely for restored well-being.
- ✓ Hyrdro Dioxide® stands out for its positioning on biofilms, resistant pathogens, water and air quality, and reduced chemical load.

