

HYDRA



Quarry Lake Shade

Gives Dark Ominous Finish to Water Bodies



Blue Lagoon To Black Lagoon



HYDRA®

Used by Local Authorities, Private Quarry Owners

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Features and Advantages

- ◆ Ideal for quarry owners and local authorities to discourage people from visiting quarry area.
- ◆ Gives a deep brown hue to the water body, putting off visitors from using the quarry area.
- ◆ Available in easy to use water soluble bags.
- ◆ Highly concentrated powder dissolves instantly leaving no residues.
- ◆ Coloured natural finish of the water lasts months.
- ◆ Frequent reapplications not required.
- ◆ Acts a UV filter and thwarts the growth of weeds, algae in already contaminated water of the quarry.
- ◆ Safe for domestic or wild animals that may stray into the quarry lake.
- ◆ Free of harmful chemicals.
- ◆ Constituents include food based dye colours that are not classified under substances hazardous for environment or human health (under 67/548/EEC and/or EC Regulation 1272/2008).
- ◆ Completely non toxic, does not increase the toxic level of the quarry water.

The Problem



Disused quarries are often naturally filled with water, especially those dug up close to the level of ground water.

Abandoned quarries that are filled with water pose serious danger to the local people who tend to use them as swimming pools.

Summer is the time when people are the most tempted to dive into the water and go to the nearest pool or lake. People often disregard the warning signs and cross over the gates and damaged fences. Most quarries can not be drained in the water supply as the water is too toxic. Some quarries are filled with beautiful blue, tropical seeming water, which actually happens due to the leaking of calcite crystals into the waters as a result of quarrying activity.

Such lakes may look inviting but the perils remain same or even higher- since beautiful lakes attract more visitors therefore put more people at risk. Many of such lakes are highly alkaline due to the presence of calcium oxide in water, with the pH 11.3 and as hazardous as bleach or ammonia.

Quarry pools are filled with cold water that may be much colder than the water in the sea or other lakes or rivers. Extreme cold water induces muscle cramps and even an expert swimmer could drown when caught unaware in such situation.

Quarry lakes are known to carry dead animals causing bacterial growth in the water.

Most often miners leave behind equipment in disused quarries, which are unnoticeable under water, posing danger to the divers or swimmers who may suddenly hit upon such machinery.

Bottoms of the quarries are uneven, thus divers may hit the ground thinking water runs deep, others may suddenly reach deeper parts and loose foothold of the ground.

Local authorities and quarry owners put up signs and fences to warn visitors about the impending health hazards and the risks involved in the “inviting” quarry waters.

It is known that people often disregard such signs and



choose to climb over the gates or broken fences.

Hydra Quarry Lake Shade camouflages the bottom of the quarry lake making the seemingly clean water almost repulsive to the visitors.

This discourages people from using the lake for recreational water activities.

In addition, the deep colour of Hydra Quarry Lake Shade filters out UV that slows the growth of weeds and algae.

Quarry Accidents

Often the water in quarries is a lot colder compared to water bodies which the swimmer may have experienced. Swimming in Quarry lakes exhausts people sooner than they expect and they get into difficulties.

In July 2013 dead body of a teenager was recovered from Gullet Quarry in Worcester. The alarm was raised after he failed to resurface while swimming but the emergency services team were not able to save him.

In June 2013 Kevin O'Hare, 15 and his rescuer Colin Poland died in the Paul's Quarry, Annalong. The teenager went swimming in the closed quarry. Colin Poland lost his life while trying to save him.

In 2012 four teenage boys drowned in separate incidents in disused quarries across the UK and on the Whitsun bank holiday weekend.

In May 2009 Ryan Walker, 15, Derbyshire lost his life while swimming in Miltown Quarry, located near Ashover.

Visitors might post the pictures of themselves playing in the water on the Internet and it appears as if they are holidaying the Bahamas. This attracts even more visitors including families with children and toddlers to the tropical looking quarry.

The local councils are unable to deter the people from using the quarry water primarily because the land may be privately owned. In addition it is impossible to drain the water into the water supply because of its high toxic level.

The 11.3pH of the water is as dangerous as ammonia



(11.5pH) and bleach (12.6pH).

An effective way of keeping people away from the seemingly attractive yet dangerous waters is to camouflage the beautiful and apparent clear view of the water body.

Hydra Quarry Lake Shade is the appropriate product which covers the natural colour of the water and turns it to a unsightly hue of brown.

Hydra Quarry Lake Shade is a blend of edible food grade dyes, which does not increase the toxic levels of the water. The product comes in the form of concentrated powder packed in water soluble bags, which can simply be thrown into the water body.

Hydra Quarry Lake Shade leaves behind no un-dissolved residues and the natural finish would last up to three months or more before reapplication.

Trespassers

Local councils are unable to keep away swimmers and families from the

quarry waters, which come to the quarry for picnics and relaxing in the sun on the water side.

People are attracted to the water because of the beautiful blue hue, which in fact is a result of calcite crystals that leak into the quarry and gives the water an attractive turquoise colour.

The quarrying activity also gives out the by-product of calcium oxide making the water alkaline and hence unsafe for swimming or any recreational activity. The pH level, as high as 11.3, is known to trigger fungal infections including thrush, various skin problems and upset stomach. The water body may also be infested with excrement, carcass of dead animals and even car wrecks.

People often disregard the warning signs put up by the council that clearly state that the water body contains rubbish, is hazardous to health and unfit for



swimming.



Description



Hydra Quarry Lake Shade conceals the natural colour of the water.

A single application of the product dyes the water for months and the water body is likely to seem unattractive to the people.

Hydra Quarry Lake Shade is best option to alter the colour of the flooded quarries so that lake or pool is no more aesthetically appealing to people. In addition, the dye blocks UV rays, therefore prevents messy algal or plant growth.

The composition of Hydra Quarry Lake Shade is free of any harmful chemicals and is certified for not posing any danger to the ecology.

The product is a blend of food grade dye and is completely harmless for all animals that may stray into the quarry area.



How To Use



The product, applied in quantity, as small as, 100 grams could treat up to 100,000 litres of water and one kilogram would colour up to 4 million litres, approximately one acre (4000 sq. m) of water surface with a depth of 1 meter.

Easy to use water soluble powder, packed in self dissolving bags.

Simply toss into the water to be treated, natural wind driven currents will mix the product over a day or two into the whole water body.

A very simple yet cost effective way to keep people from coming to harm in dangerous disused quarries and other water bodies. Fences costing tens of thousands of pounds might not stop them from entering the water but Hydra Quarry Lake Shade will for the cost of a few hundred pounds.



Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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