

DAMIT™ DAM SEALER

RAPID LEAK SEALER FOR DAMS AND PONDS

DESCRIPTION

DamIt™ Dam Sealer is an advanced, non-toxic, polymer powder which can be used to seal leaking dams and ponds. The polymer is applied to a leaking dam or pond by scattering the powder across the surface of the water. DamIt™ Dam Sealer is designed with a positive charge which draws it downward through the water toward the bottom of the dam or pond. The water pressure (hydrostatic pressure), which causes the dam or pond to leak, forces the polymer down into cracks and crevices as it sinks to the bottom of the pond or dam. Once activated with water, the polymer will expand in size and bind to other polymer particles to form larger groups of particles, which effectively slows and stops the leak. The polymer will continue to expand over a number of hours and forms a flexible plug that withstands water pressure. The positive charge of the particles will also attract any silt and suspended matter in the water downward to the bottom, which acts to embed the polymer within the soil structure and minimise any disturbance or movement of the polymer that may be caused by future water inflows.

DamIt™ Dam Sealer is insoluble and will form a long term plug in cracks and porous soils. The polymer stays active when wet and can withstand continuous wet/dry cycles to accommodate rising and falling water levels due to seasonal water level variations in the dam or pond. The polymer is totally safe and approved for use with potable water and will not harm humans, fish, aquatic plants or animals.

DamIt™ Dam Sealer will eventually break down to form a harmless mix of water and carbon dioxide over time.

DamIt™ Dam Sealer is a rapid, cost effective solution for sealing water leaks and does not require earthmoving equipment or the emptying of dams and ponds; allowing you to save valuable water and keep the dam or pond in use while repairs are undertaken.

DamIt™ Dam Sealer works on a wide range of soil types; from clays to sandy loams and in a wide range of water types; from clear, pure drinking water through to saline water with high levels of suspended clays typically found in rural stock dams.

One application is normally sufficient to stop leaks permanently.

DamIt™ Dam Sealer is applied over the surface of the dam/pond at a rate of 1 litre of DamIt™ Dam Sealer powder per 10 square meters (or 107 square feet) of dam. If you have obvious signs of the leak (eg wet walls or water trickling out of ground), or you feel you know the general area causing the leak then DamIt™ Dam Sealer can be applied just to those areas of the dam/pond and a smaller amount of DamIt™ Dam Sealer will be required.

PREPARATION

The polymer must be kept in a sealed container and dry until ready for use. DamIt™ Dam Sealer can be applied in a concentrated area to spot-treat known leaks or may be used across the entire surface of the dam/pond where the source of the leak is unknown. The recommended method of application is to use a hand held seed or fertiliser spreader to ensure a uniform application rate, however hand application is also suitable but care should be taken not to apply large quantities to any one area.

DamIt™ Dam Sealer is most effective when applied to a full dam or pond however it may be worked into the soil on dry dams/ponds to minimise the risk of leaks where poor soils are used for dam/pond construction. Do not leave DamIt™ Dam Sealer exposed to sunlight as UV light will degrade the polymer.

DamIt™ Dam Sealer does not damage aquatic plants or animals however it is suggested plants are removed prior to application for best results and introduced after the leak has been plugged.

For very deep dams or for application along steep embankment walls more DamIt™ Dam Sealer will be required to effectively cover the bottom at the required rate.

IMPORTANT! - The level of dissolved salts in the water will have a direct impact on the dosage rates required. Soluble Salts such as Sodium or Calcium Chloride reduce the absorption ability of the polymers. For salt concentrations of 0.1gram / Litre, 1.5 times the normal dosage is required and at 0.5grams of salts / Litre, 2 times the dosage rate is required. DamIt™ Dam Sealer can generally be used on most dams or ponds at the suggested application rate of 75g / m² of dam surface area without measuring salt content, however if you suspect your water has a high salt content you will need to apply more DamIt™ Dam Sealer to compensate for the reduced capacity of the polymer. High levels of salts are not commonly found in surface water and more

TECHNICAL DATA

Application	One application is normally sufficient however difficult projects may require follow up application
Coverage:	Normally applied at 75g/m ² of dam/pond surface area. For high salinity increased dosage rates are required
Activation Time:	0-2 hours
Fully Activated:	4-7 days
Cleanup:	Sweep up spills of dry DamIt™ Dam Sealer or, if wet hose off with large amounts of water
Shelf Life:	5 years in a dry sealed container
Store Between:	0°C – 50°C
Application Temperature:	Water temps above 5°C

PRODUCT USES

Rural and Farm Dams
Garden or Park Ponds
Golf Courses
Levee Banks
Irrigation channels/ponds
Storm-water Channels
Artificial Wetlands
Storage Reservoirs
Water Features
Tailings Dams *
Fish Ponds
Aquaculture

* Not suitable for highly acidic or alkaline tailings

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APPLICATION

DamIt™ Dam Sealer works best when the powder is able to sink to the bottom slowly before activation.

Broadcast the powder evenly over the surface of the water when there is little wind or current (i.e. little or no water flowing into the dam/pond). In shallow dams/ponds walk very slowly through the dam so you don't create strong currents. Apply the powder to the side or behind you as you walk (not in front) and do not walk over any areas you have already applied the powder to – i.e. avoid treading in the polymer. A canoe or small boat is suggested for application on larger dams.

Apply sparingly or not at all to the area where water enters the dam as heavy water inflows can disturb and re-locate the polymer. Apply the powder more sparingly to shallow sections and along the waterline and apply at greater rates along the foot of embankment walls and in deeper areas. For known problem spots such as the foot of embankment walls, multiple light applications over this area may be more effective.

For dry dams & ponds, DamIt™ Dam Sealer should be covered with a light layer of soil to ensure it stays in place. Prepare the ground and scatter an even layer of powder over the surface then cover with 1-2cm of topsoil. If possible pre-wet the soil with a hose trying not to wash away the soil before filling the dam/pond. This method can also be used when the dam is not full – treat the area above the water line in this way.

The polymer activates over 2 hours however it may take a number of days for the particles to be fully drawn into cracks and crevices. The more water pressure available (i.e. the higher the water level) the faster the leaks will be plugged.

DamIt™ Dam Sealer is fast acting and a reduction in the rate of water loss should be evident within 2 hours. The polymer will continue to reduce water leaks over 4-7 days – do not re-apply more DamIt™ Dam Sealer within 4 days of the first application.

Where DamIt™ Dam Sealer is applied over still water, some components may not sink for an extended period. Where this occurs, break the surface tension to help the remaining product sink by spraying with a hose or splashing the water

To calculate the surface area simply multiply the length by the width (in metres). Once you've calculated the area in m², then simply divide that number by 10 to determine the number of litres you'll require. Eg If your result is 150m² then divide 150 by 10 = 15 litres of DamIt™ Dam Sealer

If your dam is circular measure the distance across (diameter) and use the following formula to calculate area - $0.785 \times \text{Diameter} \times \text{Diameter}$. Eg distance across dam is 10 meters, area is $0.785 \times 10 \times 10 = 78.5\text{m}^2$

We're always happy to assist in calculating the amount required. If you aren't sure or have a difficult shape please use the Contact Us page and send details of your project

Please view our FAQ section for more detailed information here:

[Dam Sealer FAQ's](#)

TRANSPORT / STORAGE	
Pail Sizes	1KG, 5KG, 15KG
Weights	1.1KG, 5.1KG, 15.1KG
Dangerous Goods Class	N/A

DISCLAIMER

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by Shalex in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.

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Caution:

DamIt™ Dam Sealer becomes very slippery when wet. The use of gloves is suggested when hand spreading to keep DamIt™ Dam Sealer dry until ready for use. The container must be well sealed in high humidity to stop absorption of moisture, prior to use. Discard any polymer powder which has been wet, forms lumps, or a slippery gel consistency.



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