

Matrix Polymers for RainSafe™ drinking water system

There are growing pressures on water supply from population growth, migration to big cities and rising pollution levels. As old water piping and treatment networks are strained, the problems of pressure reductions and supply disruption are becoming more regular and longer lasting events. With its unique capability to safely store water without the need for added chemicals, particularly chlorine, with its associated and well documented health concerns, installing a **RainSafe™** offers significant comfort and protection to businesses and homeowners alike.



RainSafe is an Irish water company who has developed an innovative solution to purify water by using a sophisticated technology. This technology uses UV light, ozone and a filtration system to produce fresh, potable water from harvested rainwater.

Harvested water is filtered before the UV treatment. The single UV source both sanitises the water and produces ozone which is mixed with the water within the RainSafe™ tank. This refreshes the water, and provides residual sanitisation. Ozone also acts as a micro-flocculent to enhance the cleansing ability of the RainSafe™. The UV lamp switches on and off automatically which achieves at least a 90% energy saving over conventional single source UV sanitizing systems.

The RainSafe™ tank is a rotational moulded polyethylene reservoir made by a German Company called Emano Kunststofftechnik GmbH, one of the most innovative rotomoulding firm in Germany. The rotomouldable polyethylene resin is Revolve N-250 colour compounded blue. Revolve N-250 is one of the most popular rotational moulding resin due to its wide operating window, extremely good flow characteristics and toughness. The material is supplied by Matrix Polymers to find out more email us at sales@matrixpolymers.com or visit our website www.matrixpolymers.com