

grotanQ[®]

Epoxy coated liquid fertiliser storage tanks

We are pleased to introduce **grotanQ[®]** our epoxy coated liquid fertiliser storage tank

As a design, manufacture and installation specialist, Balmoral has been widely involved in the liquid storage solutions market for over 40 years. Our knowledge and understanding of the applicable approval authorities ensures our products are delivered in accordance with all current standards.

Balmoral grotanQ offers the following benefits:

- Efusion 1500 epoxy coating
- Epoxy painted concrete floor which comes with a holiday test on completion to ensure full coating coverage
- Tanks supplied with a choice of GRP or fixed steel covers
- Eurocode or AWWA designs to suit client requirements
- Full material traceability through internal manufacturing processes, from steel procurement to finished product
- 3D engineering drawings for each project as shown opposite
- Tanks provided on a supply only or supply and installation basis
- Fully supported by Balmoral Tanks' product warranty scheme



We are committed to providing the market with compliant products in line with recognised approval standards and are available to discuss your liquid fertiliser storage projects. Please contact us for further information.

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BALMORAL

COATING PERFORMANCE AND QUALITY STANDARDS

efusion 1500 epoxy coated steel tanks



Internal coating: Thermoset resin fusion bonded epoxy

Description	Test standard	Result	Colour
Dry film thickness	Elcometer 456	300µm - 650µm (13 - 26mils)	
PH range		PH 2-13	
Corrosion resistance (Salt spray test)	EN ISO 9227	Pass - 0mm creep from scribe at 1440hrs	
Hot water immersion 90 days, 75°C	EN ISO 21809-2	Pass rating 1	
Humidity	EN ISO 6270-2	Pass - 1000 Hrs	
Adhesion	EN ISO 21809-2	Pass - 0mm	
Hardness	EN ISO 2815 - Bucholtz Hardness Test	Pass - Indentation resistance = 91	
Impact resistance	EN ISO 6272-2	Pass >15J	
Abrasion resistance	Abrasion wheel ASTM 4060	CS17,1000g,1000 cycles < 27mg	
Chemical immersion	50% NaOH, 50% H ₂ SO ₄	Meets/exceeds industry standard	
Holiday test	1100v/1500v every panel	100% defect free at test voltage	

External coating: Durable polyester

Description	Test standard	Result	Colour
Dry film thickness	Industry standard device	150µm – 230µm (6-9mils)	
Corrosion resistance (Salt Spray Test)	EN ISO 9227	16mm creep from scribe at 1000 Hrs	
Humidity	EN ISO 6270-2	Pass - 1000Hrs	
Adhesion	EN ISO 21809-2	Pass - 0mm	
Hardness	EN ISO 2815 - Buchholtz Hardness Test	Pass - Indentation Resistance = 80	
Impact resistance	EN ISO 6270-2	2.5Nm/22 inch-pound (no sign of detachment)	
Weathering	EN ISO 16474-2	Pass -1000Hrs, residual gloss ≥50%, Colour change ΔE according to Qualicoat requirements (appendix A7)	
Weathering	EN ISO 16474-3	Pass - 300Hrs, Residual gloss ≥ 50%	

Any coating damage must be repaired in accordance with the operation and maintenance manual to maintain an effective barrier to the environment

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