# **Dosing Guidelines for**

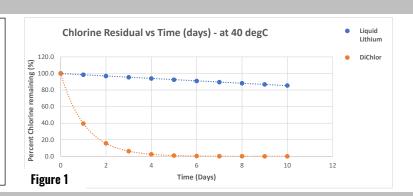
# **Liquid Lithium**





## 1. Dosing Considerations

- Liquid Lithium dosing will be shown as a comparison to Dichlor in order to compare cost efficiency
- Since Liquid Lithium is so much more stable than Dichlor it only requires to be dosed once per 7 days (see Figure 1)
- Dichlor dosing rates have been sourced from product label
- Dichlor will take time to dissolve Liquid Lithium will provide instantaneous sanitation



### 2. Recommended Dosing Rates - Comparison

# **Liquid Lithium - For 1000L Spa**

Dosage	Amount (mls)	Frequency
Shock	4 x Daily Dose	At start only
	= 4 x 20 = 80 mls	(once off)
Super	2 x Daily Dose	Each Week
Chlorination	= 2 x 20 = 40 mls	
Routine	See Super Chlorination	See Super Chlorination
Weekly Total	40 mls	Each Week
One bottle	= (1000-80)/40	n/a
lasts	= 23 weeks (161 days)	

# Dichlor - For 1000L Spa

Dosage	Amount (mls)	Frequency
Shock	3 x Daily Dose	At start only
	= 3 x 10g = 30 g	(once off)
Super	3 x Daily Dose	Each Week
Chlorination	$= 3 \times 10g = 30 g$	
Routine	10g	Daily
Weekly Total	90g	Each Week
One bottle	= (1000-30)/90	n/a
lasts	= 10.8 weeks (75 days)	

### 3. Cost per Day - Comparison

Liquid Lithium:

RRP per 1L Bottle = \$50 (approx.)

Cost per Day = \$50/161 = \$0.31 per Day

Dichlor:

RRP per 1kg Bottle = \$30 (approx..)

Cost per Day = \$30/75 = \$0.40 per Day

#### 4. Dosing Procedure – Liquid Lithium

- Owner/Technician needs to test the water for sanitiser concentration before each use & adjust if reqd.
- If a Chlorine based sanitiser is being used, the normal target concentration of available chlorine is 3 to 10 ppm.
- Formula to calculate volume of LL required:

LL Dosage Volume (mls) = (Desired AC – Current AC)
x Spa Volume/(90.91)

Where AC = Available Chlorine level (ppm), Spa Volume (L)

#### **Dosing Procedure – Startup/Ongoing**

- Add CYA to 15ppm:
   CYA Dose = 0.000015 \* Spa Volume (in grams)
   Add CYA to Spa
- Use test strip to check current AC
   Calculate Liquid Lithium Dosage + add to Spa
- 3. Test for Available Chlorine (AC) using test strip. Adjust LL as required to achieve 3-5 ppm
- 4. If concrete spa then add Calcium Chloride to 100ppm
- For Daily Dosing repeat Steps 2 & 3.