



Zeoplant Presentation

**Sustainable Solution for the Increased
Irrigation Water Shortage in our
Booming Environment**

Zeoplant - a unique mixture of many different minerals.



Tecto silicates and devitrified volcanic glass (rhyolitic tuff/tuffit, kali tuff/tuffit, christoballite, pyrolusite) and maximum 20-25 % of clinoptilolite (zeolite)



Zeoplant is a natural resource and a mining product



Broken rock pieces of Zeoplant's minerals.

Natural Occurring Phyllo Silicates and Devitrified Volcanic Glasses



Illite, montmorillonite with a very special composition of trace elements



The image shows two large white bulk bags of Zeoplant fertilizer, each sitting on a wooden pallet. The bags are filled with a white granular material. The Zeoplant logo, which includes a green plant icon, is prominently displayed on the front of each bag. Below the logo, there is a block of text in both English and Arabic providing product details. The English text includes the importer's name (Zeoplant LLC), the producer (Gazproduct KFT), the lot number, the expiry date (6 years), and the country of origin (EU). A table lists the chemical composition, showing percentages for various nutrients like Nitrogen (N), Phosphorus (P), Potassium (K), and others. The Arabic text provides the same information in Arabic script. The bags are secured with blue straps. The background shows a dark, leafy area, possibly a garden or a field.

zeoplant زوبلانت

Importer: Zeoplant LLC, P.O. Box 72412 Dubai, U.A.E.
 Producer: Gazproduct KFT,
 Lot No.:
 Expiry Date: 6 years
 Country of origin: EU-country

Chemical composition:

N	12.00 %
P ₂ O ₅	12.00 %
K ₂ O	12.00 %
CaO	1.00 %
MgO	0.79 %
NaCl	0.00 %
Fe ₂ O ₃	0.00 %
ZnO	0.00 %
B ₂ O ₃	0.00 %
CuO	0.00 %
MnO	0.00 %
S	0.00 %
Cl	0.00 %
Other	0.00 %

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Cl	0.00 %
Other	0.00 %

What is Zeoplant?



- The product **Zeoplant is a very effective water retaining soil amendment**, consisting of fully natural mineral materials.
- Zeoplant is a one-time application
- Zeoplant reduces the infiltration speed of the sweet soil by up to 85%!
- Zeoplant contains lots of nutrients and helps the healthy growth of the plants.

Guaranteed savings & benefits by using Zeoplant:

- **Irrigation Water Saving of min. 50%**
- **Savings of 50% electricity** for pumping of irrigation water
- **Direct wear & tear savings** on maintenance for pumping units & irrigation equipment
- **Reduction of storage cost** for irrigation water (minimize/ eliminate tanks)
- **Reduction of chemical fertilizers** during maintenance and operation through prevention of leaching.
- Therefore **monetary savings** in time, logistics, labour, spreading
- **Healthier and faster growth** of plants and crops which can be substantially proven (temperature controlled areas, i.e. Green houses and open areas)
- **pH is reduced** and **EC increased** which effects growth rate by providing the plants more nutrients.
- Zeoplant has a **high CEC** and contains lots of nutrients
- **Replaces the usage of peat moss** completely
- **Reduces carbon footprint**

Irrigation schemes in the U.A.E. and reduced rates with Zeoplant



Type of Plant	Unit	Month							
		May, June, July, August	May, June, July, August		September, October, November, March, April	September, October, November, March, April		December, January, February	December, January, February
			<u>with Zeoplant</u>			<u>with Zeoplant</u>			<u>with Zeoplant</u>
Palm Trees	Liters/tree	150	60		110	50		75	38
Ornamental Trees	Liters/tree	100	40		75	35		50	25
Shrubs	Liters/tree	15	7		11	5		7.5	4
Hedges	Liters/m ²	10	5		8	4		5	3
Ornamental Grass	Liters/m ²	10	5		10	5		8	4
Lawns	Liters/m ²	12-15	6-7		10	5		8	4
Cactus & Succulents	Liters/plant	8	4		6	3		4	2
Rock & Run plants	Liters/plant	10	5		8	4		6	3

Easy application of Zeoplant



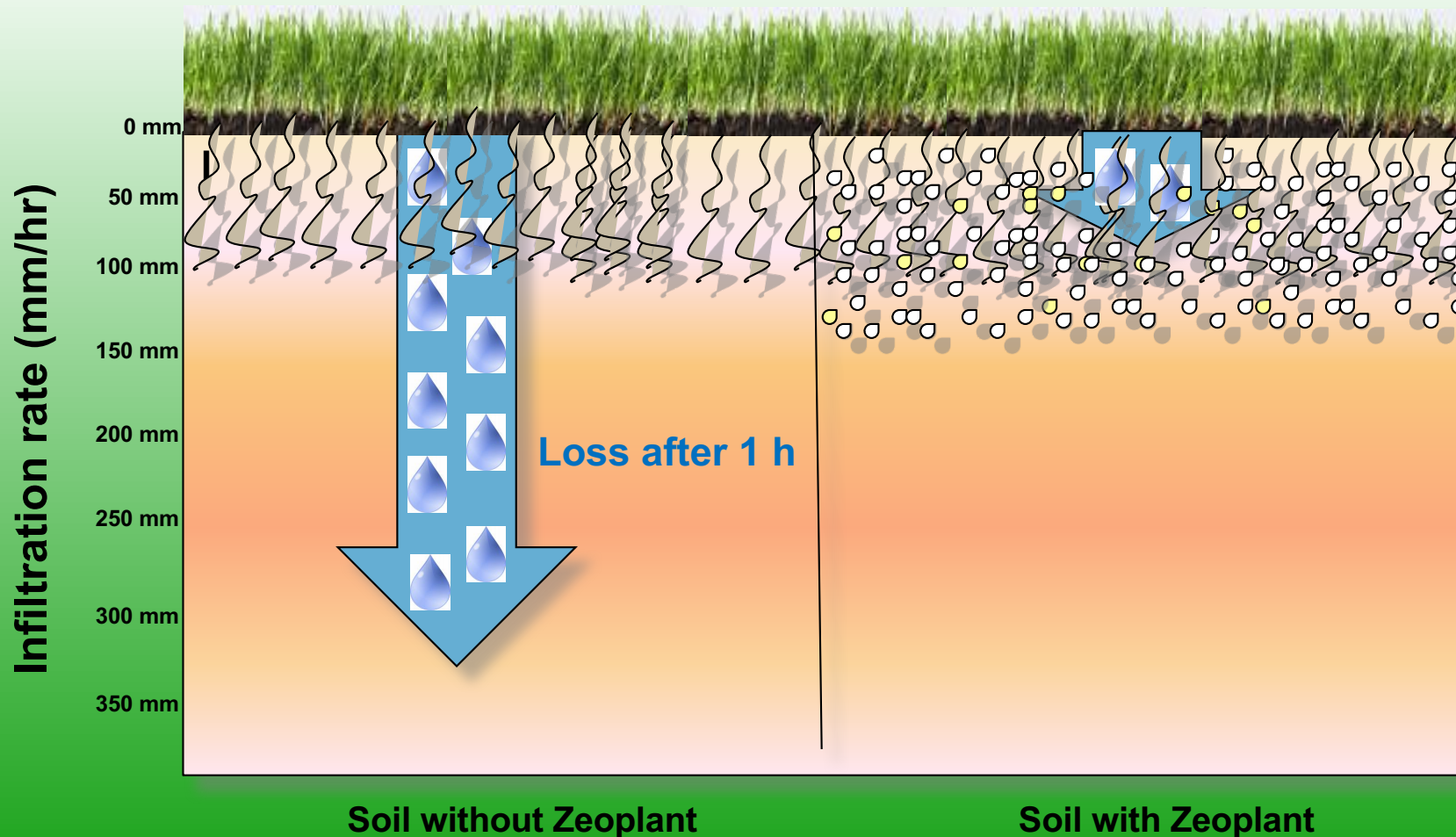
Pre-mixed Soil



Zeoplant reduces the Infiltration Rate & Increases the Water Holding Capacity of the Soil



The chart shows how deep the irrigation water flows down the soil within 1 hour



Contract No. 499 – Development of 5 Parks & Playgrounds for Abu Dhabi Municipality



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IRRIGATION WATER SCHEDULE (SUMMER) FOR C499 Project (Park-4) AS ON 12/05/2016.

STATION	Plant	VALVE	VALVE	PROGRAMME-A		PROGRAMME-B		TOTAL		TOTAL		TOTAL		Zeoplant Irrigation	
NUMBER	Description	NUMBER	FLOW	CYCLE-1 (7.00AM-9.30AM)		CYCLE-2 (3.00PM -5.30PM)		DURATION		CONSUMPTION		CONSUMPTION		Water Saving	
			IN m ³ /HOUR	Irrigation Schedule in Minutes		Irrigation Schedule in Minutes		IN MINUTES		IN m ³		IN LITER		Saving	Saving
				Former Schedule	Zeoplant Schedule	Former Schedule	Zeoplant Schedule	Former Schedule	Zeoplant Schedule	Former Schedule	Zeoplant Schedule	Former Schedule	Zeoplant Schedule	in Liter	in%
1	Lawn	S-01	6,86	25	10	20	10	45	20	5,15	2,29	5.145	2.287	2.858	55,56
2	Lawn	S-02	7,2	25	10	20	10	45	20	5,40	2,40	5.400	2.400	3.000	55,56
3	Palms, Trees,	D01	12,11	25	10	20	10	45	20	9,08	4,04	9.083	4.037	5.046	55,56
4	Palms, Trees,	D01	9,86	25	10	20	10	45	20	7,40	3,29	7.395	3.287	4.108	55,56
5	Palms, Trees,	D01	8,68	25	10	20	10	45	20	6,51	2,89	6.510	2.893	3.617	55,56
6	Palms, Trees,	D01	12,84	25	10	20	10	45	20	9,63	4,28	9.630	4.280	5.350	55,56
7	Shrubs, GC	D02	13,48	25	10	20	10	45	20	10,11	4,49	10.110	4.493	5.617	55,56
8	Shrubs, GC	D02	7,16	25	10	20	10	45	20	5,37	2,39	5.370	2.387	2.983	55,56
TOTAL =				200	80	160	80	360	160	58,64	26,06	58.643	26.063	32.579	55,56
NOTE:-		Without Zeoplant						With Zeoplant							
		DAILY WATERING HOURS WITHOUT ZEOPLANT = 3.35 + 2.65= 6.0 HOURS						DAILY WATERING HOURS WITH ZEOPLANT=1.35+1.35 = 2.7 HOURS AND 0 MINUTES							
		DAILY WATER CONSUMPTION IN m ³ WITHOUT ZEOPLANT= 58.64 m ³						DAILY WATER CONSUMPTION IN m ³ WITH ZEOPLANT = 26.06 m ³							
		DAILY WATER CONSUMPTION IN LITERS WITHOUT ZEOPLANT= 58,643 LITERS						DAILY WATER CONSUMPTION IN LITERS WITH ZEOPLANT = 26,063 LITERS							
Acknowledged by:		Abu Dhabi Municipality Representative				Dorsch Consulting Representative				Zeoplant Representative					
										Simon Engelfried - Project Manager					

Contract No. 499 – Development of 5 Parks & Playgrounds for Abu Dhabi Municipality



Daily Irrigation Water & Run time Savings at Al Adla 5 Parks Khalifa City

	Former consumption	Zeoplant consumption	Savings in lit		Former Run time in h	Zeoplant Run time in h	Run time Savings in hours
<i>Park 3</i>	31,905	14,180	17,725		3.74	1.66	2.08
<i>Park 4</i>	58,643	26,063	32,579		6	2.7	3.3
<i>Park 5</i>	58,073	25,810	32,263		7.5	3.3	4.2
<i>Park 6</i>	71,355	31,713	39,642		7.48	3.32	4.16
<i>Park 7</i>	55,425	24,633	30,792		6.75	3	3.75
Total	275,400 lit	122,400 lit	153,000 lit		31.47 h	13.98 h	17.49 hours

Delma Park – Abu Dhabi Municipality



Client: Crown Prince Court Abu Dhabi
Consultant: Dorsch Group
Landscape Contractor: Al Ryum Contracting

<u>Plant List</u>	<u>Total Qty.</u>
Palm Trees	14
Trees	174
Plantation area	3,468 m ²
Lawn	5,878 m ²



Delma Park – Abu Dhabi Municipality



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Weekly recording & documentation



Irrigation Water Schedule for Delma Park – E-19 as on 06. Aug. 2014

														Zeoplant Irrigation	
STATION	Plant	VALVE	VALVE	PROGRAMME-A		PROGRAMME-B		TOTAL		TOTAL		TOTAL		Water Saving	
NUMBER	Description	NUMBER	FLOW	CYCLE-1		CYCLE-2		DURATION		CONSUMPTION		CONSUMPTION		Saving	Saving
			IN m³/HOUR	Irrigation Schedule in Minutes		Irrigation Schedule in Minutes		IN MINUTES		IN m³		IN LITER		in Liter	in %
				Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014		
1	Lawn	S01	14.33	10	4	5	3	15	7	3.58	1.67	3,580	1,670	1,910	53.35
2	Lawn	S02	17.4	10	4	5	3	15	7	4.35	2.03	4,350	2,030	2,320	53.33
3	Lawn	S03	18.74	10	4	5	3	15	7	4.69	2.17	4,690	2,170	2,520	53.73
4	Lawn	S04	18.52	10	4	5	3	15	7	4.63	2.16	4,630	2,160	2,470	53.35
5	Lawn	S05	16	10	4	5	3	15	7	4.00	1.86	4,000	1,860	2,140	53.50
6	Lawn	S06	19.5	10	4	5	3	15	7	4.88	2.28	4,880	2,280	2,600	53.28
7	Lawn	S07	19.55	10	4	5	3	15	7	4.89	2.28	4,890	2,280	2,610	53.37
8	Lawn	S08	15.41	10	4	5	3	15	7	3.85	1.79	3,850	1,790	2,060	53.51
9	Lawn	S09	6.17	10	4	5	3	15	7	1.54	0.72	1,540	719	821	53.31
10	Lawn	S10	12.86	10	4	5	3	15	7	3.22	1.50	3,220	1,500	1,720	53.42
11	Lawn	S11	18.7	10	4	5	3	15	7	4.68	2.18	4,680	2,180	2,500	53.42
12	Lawn	S12	18.47	10	4	5	3	15	7	4.62	2.15	4,620	2,150	2,470	53.46
13	Lawn	S13	18.81	10	4	5	3	15	7	4.70	2.19	4,700	2,190	2,510	53.40
14	Lawn	S14	18.4	10	4	5	3	15	7	4.60	2.15	4,600	2,150	2,450	53.26
15	Lawn	S15	11.96	10	4	5	3	15	7	2.99	1.40	2,990	1,400	1,590	53.18
16	Palms, Trees, Shrubs, GC	SD01	3.21	40	15	20	10	60	25	10.45	4.35	10,450	4,350	6,100	58.37
		SD02	7.24												
17	Palms, Trees, Shrubs, GC	SD03	6.3	40	15	20	10	60	25	19.90	8.29	19,900	8,290	11,610	58.34
		D03	13.6												
18	Palms, Trees, Shrubs, GC	D01	12.92	40	15	20	10	60	25	29.81	12.42	29,810	12,420	17,390	58.34
		D04	16.89												
19	Palms, Trees, Shrubs, GC	D02	14.7	40	15	20	10	60	25	14.70	6.13	14,700	6,130	8,570	58.30
TOTAL =				310	120	155	85	465	205	136.08	59.72	136,080	59,719	76,361	54.43

Weekly recording & documentation - Extract



														Zeoplant Irrigation	
STATION	Plant	VALVE	VALVE	PROGRAMME-A		PROGRAMME-B		TOTAL		TOTAL		TOTAL			
No.	Description	NUMBER	FLOW	CYCLE-1		CYCLE-2		DURATION		CONSUMPTION		CONSUMPTION		Water Saving	
			IN m³/HOUR	Irrig Schedule in Min		Irrig Schedule in Min		IN MINUTES		IN m³		IN LITERS		Saving	Saving
				Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014	Former Schedule	6.8.2014	in Liters	in %
15	Lawn	S15	11.96	10	4	5	3	15	7	2.99	1.40	2,990	1,400	1,590	53.18
16	Palms, Trees,	SD01	3.21	40	15	20	10	60	25	10.45	4.35	10,450	4,350	6,100	58.37
	Shrubs, GC	SD02	7.24												

Delma Park – Abu Dhabi Municipality



Reduced Run Time of Irrigation System

	<u>No Zeoplant</u>	<u>With Zeoplant</u>	<u>Savings</u>
Daily Irrigation Run Time	7 hours + 45 min	3 hours + 25 min	4 hours + 20 min
Daily Irrigation Water Consumption	136,080 lit	59,720 lit	76,360 lit

Delma Park – Abu Dhabi Municipality



ROI: less than 1 year

Cost cutting of Construction Budgets

