



CORRECTED REPORT

H. H. HOLMES TESTING LABORATORIES, INC.

Report No. 1

-170 Shepard Avenue - Wheeling, Illinois 60090 · Area Code 708 541-4040 - Fax: 708-537-9098

February 27, 1991

Lab No. CH 6938

File No. 8377.0

3-D Distributors, Inc.
1840 North Fernandez Avenue
Arlington Heights, IL 60004

REPORT OF TESTS

Subject : Salt Scaling of Concrete Bars Treated with Protecrete
Date Sampled : Ozinga Alsip, Illinois
Test Method : ASTM C-672, C-39, C-192

TEST DATA

Air Entrained Non Air Entrained

Mix Data

Cement (lbs)	564	564
Natural Sand (lbs)	1200	1280
Coarse Aggregate (lbs)	1920	1920
Darex (oz)	3.0	0
Water (lbs)	275	280
Wt./Cu.Ft.	145.2	149.6
Yield	27.27	27.03
Slump (in.)	3	3
Air Content (%)	6.4	2.5

Compressive Strength (psi)

7 Days (1-31-91)	1	3700	4250
	2	3720	4310
Average		3710	4280
28 Days (2-21-91)	4	5290	6410
	5	5350	6370
Average		5320	6390



- inspection
- evaluation
- research

construction materials

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Report No. 1 (cont) - 170 Shepard Avenue - Wheeling, Illinois 60090 - Area Code 708 541-4040 - Fax: 708-537-9096

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TEST DATA (cont)

Non Air Entrained

<u>Sample No.</u>	<u>Condition of Surface (Rating No.)</u>
Non-treated 1	5
Non-treated 2	4
Non-treated 3	5
Treated 1	1
Treated 2	2
Treated 3	2

Air Entrained

<u>Sample No.</u>	<u>Condition of Surface (Rating No.)</u>
Non-treated 1	3
Non-treated 2	2
Non-treated 3	3
Treated 1	1
Treated 2	1
Treated 3	1

LEGEND

Rating	Condition of Surface
0	No scaling
1	Very slight scaling (1/8" depth, no coarse aggregate visible)
2	Slight to moderate scaling
3	Moderate scaling (some coarse aggregate visible)
4	Moderate to severe scaling
5	Severe scaling (coarse aggregate visible over entire surface)

Respectfully submitted,

Richard E. Nelson, Jr.
President

Todd R. Nelson
Vice President

REN/kmc