



Silicone Shield™ S100W
Patented 1994

ASTM test data:

| <u>Test Description:</u> | <u>Standard Plaster</u> | <u>2.5% S100w Plaster</u> |
|---|-------------------------|---------------------------|
| Compressive Strength | 5800 PSI | 6720 PSI |
| Flexural Bond Strength 28 days minimum PSI Avg. | 116 PSI | Avg. 169 PSI |
| Set Water Retention (Improves resistance to checking and crazing) | 70% min. | 86% Avg. |
| Freeze Thaw Durability ASTM C 290-57T | Failed at 123 cycle | Passed over 600 cycles |
| Scaling Resistance | Evident at 41 cycles | No scaling at over 600 |

Table 1:

Maximum daily rate of water (RWT) and Vapor (RVT) transmission

| | <u>RWT</u> (g/m2/day) | <u>RVT</u> (g/m2/day) |
|-------------------------|--------------------------|--------------------------|
| Unmodified Pool Plaster | 1583 | 317 |
| 2.5% S100w Plaster | 0 | 32 |

Table 2:

Chloride content after soaking in a 15% NaCl solution for 3 weeks

| | <u>Unmodified Plaster</u> | <u>S100w Plaster</u> |
|---|---------------------------|----------------------|
| Chloride Content % (by mass of oven dried mortar) | 0.25% | 0.006% |
| Percentage of Control | 100% | 2.4% |
| <u>Total reduction in the chloride Ion penetration</u> | | <u>97.6%</u> |

PYRAMID CEMENT DATA SHEET



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