



CWR
Clean Water Resources



Duracoat™

*The New Performance Standard for
Manhole Lining Materials*

Lining with Duracoat™ – Significant Advantages

Ideal for

- Engineers
- OSHA/Workers
- Contractors
- Owners

Key Benefits

- ➔ Highest compressive strength
- ➔ Highest tensile strength
- ➔ Long-term structural solution

- ➔ Widest opening at the top

- ➔ Less material
- ➔ Single-step process

- ➔ Long-term structural renewal
- ➔ Lowest Total Cost per foot

Duracoat™ – The “Flexible” Structural Lining Solution



- The fiber-matrix slippage/breakage ratio of Duracoat™ during loading and over-loading provides a ductile behavior, unlike fiber-reinforced cements
- Duracoat™ is also self-healing and provides seismic performance and dimensional stability

Duracoat™ – The “Flexible” Structural Lining Solution



Duracoat™ – Setting New Standards

Comparison of 28-day results for selected ASTM tests

Test	Test Method	Duracoat TL-1000	Mainstay ML-72	Permacast MS-10,000	Quadex QM-1s	Sauereisen F-121	Strong Seal MS-2 A
Compressive Strength	ASTM C 109	>15,000 psi	7560 psi	10,000 psi	>10,000 psi	6,500 psi*	>9,000 psi
Static Modulus	ASTM C 469	>4,700 ksi	n/a	n/a	n/a	n/a	n/a
Flexure Strength	ASTM C 293	>1,300 psi	985 psi	1,500 psi	>1,400 psi	1,500 psi*	>1,400 psi
Tensile Strength	ASTM C 496	>1,100 psi	575 psi	>1,000 psi	n/a	550 psi*	>600 psi
Permeability	ASTM C 1202	<315 Coulombs	n/a	n/a	n/a	n/a	n/a
Bond Strength	ASTM C 882	>2,800 psi*	n/a	n/a	n/a	n/a	n/a

* 7-day results