



About the demonstration project

OPUS SCM™ produced from a granitic feedstock was used in concrete placement during construction of the new Porsche Sugar Land Texas dealership (July 2023).

A total of **100 cubic yards of concrete** was placed, with Terra's **OPUS SCM™ replacing 20% of the Portland cement** in the concrete mix. With Christensen Building Group as the General Contractor, Odi & Son, and A.G.E. Construction worked together to batch and place the concrete with Dally and Associates, the structural design firm.

Concrete performance

Concrete with OPUS SCM™ finished and set similar to a traditional concrete mix.

The concrete used for the project was designed for a compressive strength of 3500 psi at 28 days. Concrete testing was conducted by accredited third parties Alpha testing and Braun Intertec, confirming the **strength target was met and exceeded** when using OPUS SCM™ (see table below).

Further evaluation of concrete durability and long-term compressive strength (1 year) is ongoing.

| Test Parameter | Test Standard | Unit | Opus SCM™ @20% |
|-------------------------------|---------------|------|----------------|
| Slump | ASTM C143 | inch | 3.5 |
| Compressive Strength @7 days | ASTM C39 | psi | 3210 |
| Compressive Strength @28 days | ASTM C39 | psi | 4040 |



For additional information, please contact us:

TERRA CO2 TECHNOLOGY HOLDINGS INC | info@terraCO2.com | (303) 339-0867 | www.terraCO2.com