

CIPADECK® SCC

DESCRIPTION

Cipadeck® SCC is a pre-blended, high-performance, self-consolidating concrete repair product containing Portland cement, corrosion inhibitor, silica fume, air entrainment and specialty graded aggregates. Can be used in thicknesses between 25mm (1”) and 450mm (18”).

WHERE TO USE

Cipadeck® SCC can be used for on grade and/or above and below grade concrete repairs. It’s uses include bridges, industrial plants, parking garage repairs, walkways, tunnels, balconies, mines and dams.

BENEFITS

- self-consolidating properties save time and energy
- excellent flow properties and pumpable
- high strength
- excellent freeze-thaw resistance
- very low permeability
- corrosion inhibitor reduces rebar corrosion

PROPERTIES

| | |
|--------------------------------|---------------------------------|
| Work time..... | 30 to 45 minutes at 21°C (70°F) |
| Initial set..... | 4 hours |
| Compressive Strength (ASTMC39) | |
| 1 day..... | 32MPa (4,641psi) |
| 3 days..... | 39MPa (5,656psi) |
| 7 days..... | 47MPa (6,816psi) |
| 28 days..... | 51MPa (7,396psi) |
| Shear Bond Strength (ASTMC882) | |
| 1 day..... | 10MPa (1,450psi) |
| 7 days..... | 14MPa (2,030psi) |
| Length Change (ASTMC157) | |
| 28 days (Air)..... | -0.087% |
| 28 days (Water)..... | +0.013% |
| Freeze/Thaw Cycling (ASTMC666) | |
| 300 cycles..... | 93% |

| | |
|--|-----------------|
| Rapid Chloride Permeability (ASTM1202) | |
| 28 days..... | 2821 coulombs |
| Tensile Bond Strength (CSA A23.2-6B) | |
| 1 day..... | 2.1MPa (304psi) |
| 7 days..... | 2.3MPa (333psi) |

The above information is representative of typical values obtained under our laboratory conditions. Variations can be expected due to on site conditions and/or other testing methods.

APPLICATION

SURFACE PREPARATION

The concrete and/or rebar must be thoroughly cleaned of all foreign deposits such as oil, grease, loose material, rust, paint and dirt, and roughened prior to use. Square out the patch area to a minimum of 25mm (1”) and remove all contaminated concrete. The concrete should be thoroughly pre-wetted prior to the application of the Cipadeck® SCC.

Curing with wet burlap or with a CPD® concrete curing compound is recommended as this is a cement-based product requiring appropriate curing methods for optimal performance.

MIXING AND PLACING

For best results the use of a mortar mixer/ concrete mixer with rubber tipped paddles is recommended. If smaller mixes are required mix mechanically using a heavy-duty drill equipped with a mud mixer blade. Do not exceed 400 to 500 rpm. **Add 3.0L (0.79 US Gal)** of water to the mixer and slowly add the Cipadeck® SCC (always add the powder to the water) and mix for a minimum of 3 minutes or until uniform in consistency. **DO NOT ADD ADDITIONAL WATER OR VIBRATE AS THIS COULD CAUSE SEGREGATION.**

LIMITATIONS

- do not use where chemical attack is possible
- protect from freezing
- do not exceed maximum water ratio
- protect material from rain, condensation and high humidity environments prior to use
- minimum ambient temperature 8°C (46.5°F)
- pre-condition material prior to use for improved performance 18°C (65°F) to 24°C (75°F)
- do not add or extend with any other materials without consulting a CPD® representative

COVERAGE

0.011 m³ (0.39 ft³) per 25 kg (55 lb) bag

PACKAGING

Cipadeck® SCC is available in 25kg (55 lb) bags

CLEAN UP

Clean all tools and equipment with water immediately after use.

STORAGE

May be stored short term anywhere under tarp on pallets as long as the product is kept dry. Dry heated warehouse storage is recommended for extended storage.

SHELF LIFE

1 year when stored in dry warehouse on pallets in original bags. Protect from moisture.

SAFETY PRECAUTIONS

Consult safety data sheet for specific instructions.
SDS # 190.

WARRANTY

The recommendations made and the information herein is based on our own and independent laboratory experience, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor anticipate every variation encountered in weather conditions, job-conditions, methods used and types of surfaces on which the product is applied.

The users shall make their own tests to determine the suitability of such products for any particular purpose.

CPD® makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

CPD®'s liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific area to which CPD® product has been applied. CPD® reserves the right to have the true cause of any difficulty determined by accepted test methods. CPD® shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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