
High strength, high modulus, Nano-engineered cementitious grout enhanced with Carbon NanoFibers for offshore grouting, repair grouting, and similar applications.

Product Description

ce200™ – 120G is a two phase, non-shrinkage, cementitious grout which when mixed with the Carbon NanoFibers enhanced water produces a homogenous, easily flowable and pumpable grout with superior final (i.e. 28 days) strength and modulus without showing any shrinkage throughout the curing process. ceEntek's advanced Nano engineered binder and packing optimization produces a high-strength grout with the best in class performance, superior rheological properties, and extended lifetime.

Application Areas

ce200™ – 120G has been designed to meet the requirements of both small- and large-scale pump applications. Areas of use include:

- Annulus grouting and Void filling up to 600mm thickness
- Grouting under tropical conditions (i.e. high heat & humidity)
- Repair grouting of jackets

Please contact us for your specific projects and requirements.

Features and Benefits

- Compressive strength > 120MPa (28days)
- Early strength > 40MPa (24Hours/20°C)
- Flexural strength > 14MPa (28days)
- High Modulus and excellent fatigue resistance
- No bleeding or segregation
- No wash-out during under water grouting
- No wear and tear on pump equipment due to optimized particle grading
- Two phase system guarantees optimum, homogenous dispersion of Nano particles

Application Method

ce200™ – 120G has been formulated for use in offshore applications. Installations should be by trained, experienced contractors. ceEntek will ensure this training is provided to qualified parties.

Consumption

ce200™ – 120G is a two-phase system delivered in jumbo bags and pails. One pail supplies the Carbon Nanofibers in paste form for one jumbo bag. The content of the pail is diluted with the mixing water, creating a black, ink-like mixture.

ce200™-120G

High Performance Cementitious Grout

Description

ce200™-120G is a high performance cementitious grout enhanced with Carbon NanoFibers for grouting.

Features and Benefits

- High early strength
- E-modulus >30MPa
- Autogenous shrinkage < 0.01%
- Pot life > 2 hours
- Adhesion to steel >20MPa
- No water carrying capillaries, impermeable, negligible chloride penetration, UV resistant.
- Superior bonding strength to other cementitious materials and to steel.
- Easily pumpable
- Lifetime: 100+ years

Typical Uses

- Pre-cast joint
- Offshore grouting
- Repair grouting

Advantages

- Chemical Resistant
- Epoxy-Free
- High-Strength
- Durable
- Acid Resistant

Mechanical Properties

PROPERTIES	ce200™-120G	
Compressive strength ¹ (MPa)	1-day	>40
	3-day	>60
	7-day	>90
	28-day	>120
Flexural strength ² (MPa)	7-day	>10
	28-day	>14
Density (kg/m3)	2350	
Flow ³ (mm)	280	
Shrinkage (%)	<0.01%	

¹ Compressive strength in accordance to ASTM C109 test in a 100mm cubic specimen.

² Flexural strength in accordance to ASTM C348 test in a 40mm prism specimen.

³ Flow in accordance to ASTM C230.