

MULTI CENCRETE CS 55/50, 55/60, 55/70

Wet/ Dry Process for Normal, Medium or Accelerated Set Shotcreting

Description

THE MULTI CENCRETE CS 55 products are pre-blended products requiring only the addition of mixing water. The various formations also incorporate a mixture of specially processed hydraulic cement and other proprietary ingredients. Admixtures are incorporated for setting and workability ensuring that water/cement ratios are maintained. Graded siliceous aggregates and chemicals are used to minimize rebound.

The product is adaptable for use in wet and dry processes and allows for normal (Cencrete CS 55 / 50), medium (Cencrete CS 55 / 60) and accelerated (Cencrete CS 55 / 70) setting properties as per required specification.

Typical Applications

Quick and permanent support of tunnel arch sections

- * Fast progress in tunnel driving
- * Elimination of formed concrete / tunnel lining
- * Can be applied at thicker applications than normal shotcrete

Advantages

- * High early strengths - develops high early strength without loss of ultimate strength.
- * Minimum rebound - ensures ultimate penetration and compaction.
- * Reliable and consistent results - quality controlled to ensure no variation is encountered on site.
- * Dust free wet process minimizes dust pollution underground. This process eliminates any health hazard to the applicators.
- * Easy to handle - MULTI CENCRETE CS 55 is packed in tough woven bags to ensure long storage life in normal underground conditions.
- * No added chloride - composition allows the development of high early strengths without the use of calcium chloride.
- * Non flammable.
- * Excellent bond to overhead surfaces.
- * Available in a variety of colours.

Typical Properties

Compressive Strength: These results were carried out at a temperature of 22° C in accordance with BS 1188 Compressive strengths are dependent on temperature and humidity underground. Water/ Cement ratio 0,416

AGE	CONCRETE CS 55/50 WET@22° C (MPA)
1 Day	16
3 Days	14
7 Days	22
28 Days	36

AGE	CONCRETE CS 55/50 DRY@22° C (MPA)
1 Day	15
3 Days	24
7 Days	32
28 Days	45

Yield

25kg of MULTICENCRETE CS 55 / 50 requires approximately 2 -4 litres of water for wet processing - yield approximately 12 litres per bag.

Curing

It is essential to cure all concrete in order to achieve design strength and reduce moisture loss. Cure with MULTICURE Curing Compound.

Packaging

Supplied in 25kg poly propylene bags with an inner liner

Quality Assurance

MCC LIMPOPO's production and testing programmes comply to all local and international testing standards.

Updates:

This data sheet supersedes all previous issues prior to this date: 31/05/97.