MLCO TRADING LIMITED ®
TPIN: 2061889389
Service Re-Invented

P.O Box 28050, Parklands, Kitwe, Zambia.
Tel + 260-966-849978 / +260 966 512070, Email admin@mlcotrading.com

TECHNICAL DATA SHEET
CABLE ANCHOR GROUT HIGH FLOW G5

Description
Cable Anchor Grout is a OPC mixture high flow and is non-shrink and designed for cables and long anchors. A selection of chemicals ensures that this product is highly pumpable in all conditions.

Data
- Working temperature: +20°C
- Bag contains: 10KG
- Yield per bag: 6.4 litre
- Water per bag: 3.0 litre
- Initial set: 60 minutes
- Final set: 90 minutes
- Setting time: 24 hours
- Required load: 4 tons/40kN

Typical Results
The bond pull-out (kN) using a 16mm diameter ripple bar grouted in a 250mm x 50mm internal diameter pipe is actually a measure of the shear strength of the Grout. The following are typical laboratory results at a room temperature of 25°C

Age	Bond Strength	Compressive Strength
4 hours		-
8 hours	10 kN/1Ton	-
24 hours	40 kN/4Ton	8 Mpa
7 days	80 kN/8Ton	20 Mpa
28 days	100 kN/10Ton	30 Mpa

Packaging
Supplied in woven polypropylene bags with a waterproof inner liner. Packed in bulk 100 bags in a bulk bag.

Quality Assurance
MLCO Trading Ltd suppliers' production and testing programs comply with all local (SANS 1745: 2003) and international testing standards.

Beton-Lab cc

Tel: 011-979-1422 | Fax: 011 979 1430
e-mail: betonlab@absamail.co.za
32a Third Road, Bredell
PO Box 10583, Aston Manor, 1630

COMPRESSIVE STRENGTH TEST REPORT

SANS 5863:2006 Concrete Tests - Compressive Strength of hardened Concrete

CONTRACT: ROCK SUPERT SYSTEMS RSS — REPORT NO: BTG 18576 — TRUCK NO:
DELIVERY ADDRESS: — CONCRETE SUPPLIER: — LOAD NO:
PLANT: — DATE CAST: 30/07/2019
SPECIFIED STRENGTH: — ORDER NO: — DELIVERY NOTE:
CONCRETE CODE: — MEASURED SLUMP: — WEATHER CONDITIONS:
TIME SAMPLED: — SPECIFIED SLUMP: — DATE RECEIVED: 23/08/2019
CONCRETE LOCATION: PUMPABLE ANCHOR GROUT — SAMPLED/TESTED BY: — TIME RECEIVED:
RES FOR TESTING - COLLECTED/DELIVERED — Cubes Delivered — BETON LAB DW NO:

TEST RESULTS

Cube ID (Our Ref)	Customer Ref	Date Cast	Date Tested	Age	Size (mm)	Surface Area mm²	Condition	Mass (g)	Density kg/m³	Load (kN)	Strength (MPa)	Fail Mode
RSS 34		22-Aug-19	23-Aug-19	1	100x100x100	10000	1	2530	2530	81	8.1	2
RSS 35		22-Aug-19	23-Aug-19	1	100x100x100	10000	1	2505	2505	82	8.2	2
RSS 36		22-Aug-19	23-Aug-19	1	100x100x100	10000	1	2520	2520	80	8.0	2
RSS 37		22-Aug-19	23-Aug-19	1	100x100x100	10000	1	2526	2526	82	8.2	2
							Average	2520	2530	81	8.1	
							Standard Deviation	11.0	11.0	1.0	0.1	

Press : EQ 003
Scale : EQ 008 Tested by: DMITSO

CUBES MADE BY CONTRACTOR

DEVIATIONS,EXTENSIONS OR EXCLUSIONS

*Average compressive strength is recorded to the nearest 0.1MPa and not 0.5MPa as specified

Normative references:
EN 12390-4
SANS 5860
SANS 5861-2
SANS 5861-3
SANS 5862-1

CUBE CONDITION
1. Complies with requirements
2. Cube not square
3. Honeycombing present
4. Excess voids
5. Cast surface not even
6. Flatness >0.03mm
7. Broken corners on cubes

A.D.R de Kock
Member

A foundation of precision

Reg No. CK99/10075/23
Member: A.D.R. de Kock

C. Mpofu
Compiled by

Failure Mode:

WI 5.10.1 (e) Rev 06 Eff. Date: 23-03-2017

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COMPRESSIVE STRENGTH TEST REPORT

SANS 5863:2006 Concrete Tests - Compressive Strength of hardened Concrete

CONTRACT: ROCK SUPERT SYSTEMS RSS
DELIVERY ADDRESS:

SPECIFIED STRENGTH:
CONCRETE CODE:
TIME SAMPLED:
CONCRETE LOCATION: PUMPABLE ANCHOR GROUT
RES FOR TESTING - COLLECTED/DELIVERED: Cubes Delivered

REPORT NO: BTG 18576
CONCRETE SUPPLIER:
PLANT:
ORDER NO:
MEASURED SLUMP:
SPECIFIED SLUMP:
SAMPLED/TESTED BY:
BETON LAB DN NO:

TRUCK NO:
LOAD NO:
DATE CAST: 30/07/2019
DELIVERY NOTE:
WEATHER CONDITIONS:
DATE RECEIVED: 23/08/2019
TIME RECEIVED:

TEST RESULTS

Cube ID (Our Ref)	Customer Ref	Date Cast	Date Tested	Age	Size (mm)	Surface Area mm²	Condition	Mass (g)	Density kg/m³	Load (kN)	Strength (Mpa)	Fail Mode
RSS 38		20-Aug-19	27-Aug-19	7	100x100x100	10000	1	2 428	2 428	2 46	24.6	2
RSS 39		20-Aug-19	27-Aug-19	7	100x100x100	10000	1	2 436	2 436	238	23.8	2
RSS 40		20-Aug-19	27-Aug-19	7	100x100x100	10000	1	2 420	2 420	236	23.6	2
RSS 41		20-Aug-19	27-Aug-19	7	100x100x100	10000	1	2 426	2 426	235	23.5	2
						Average		2 429	2 429	239	23.9	
						Standard Deviation		6.6	6.6	5.0	0.5	

Press: EQ 003
Scale: EQ 008 Tested by: DIKETSO

CUBES MADE BY CONTRACTOR

DEVIATIONS, EXTENSIONS OR EXCLUSIONS
*Average compressive strength is recorded to the nearest 0.1MPa and not 0.5MPa as specified

Normative references:
EN 12390-4
SANS 5860
SANS 5861-2
SANS 5861-3
SANS 5862-1

CUBE CONDITION
1. Complies with requirements
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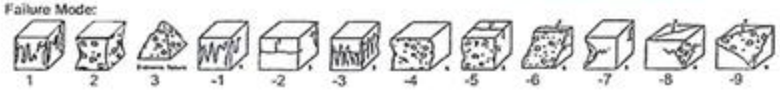
5. Cast surface not even
6. Flatness >0.03mm
7. Broken corners on cubes

A.D.R de Kock
Member

C. Mpofu
Compiled by

W1.5 10.1 (e) Rev 06 Eff. Date 23-03-2017

Failure Mode:



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Reg No. CK99/16075/23
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COMPRESSIVE STRENGTH TEST REPORT

SANS 5863:2006 Concrete Tests - Compressive Strength of hardened Concrete

CONTRACT: ROCK SUPERT SYSTEMS RSS
DELIVERY ADDRESS:
SPECIFIED STRENGTH:
CONCRETE CODE:
TIME SAMPLED:
CONCRETE LOCATION: PUMPABLE ANCHOR GROUT
BES FOR TESTING - COLLECTED/DELIVERED: Cubes Delivered

REPORT NO: BTG 18576
CONCRETE SUPPLIER:
PLANT:
ORDER NO:
MEASURED SLUMP:
SPECIFIED SLUMP:
SAMPLED/TESTED BY:
BETON LAB DN NO:

TRUCK NO:
LOAD NO:
DATE CAST: 30/07/2019
DELIVERY NOTE:
WEATHER CONDITIONS:
DATE RECEIVED: 23/08/2019
TIME RECEIVED:

TEST RESULTS

Cube ID (Our Ref)	Customer Ref	Date Cast	Date Tested	Age	Size (mm)	Surface Area mm²	Condition	Mass (g)	Density kg/m³	Load (kN)	Strength (Mpa)	Fail Mode
RSS 42		30-Jul-19	27-Aug-19	28	100x100x100	10000	1	2 438	2 438	316	31.5	2
RSS 43		30-Jul-19	27-Aug-19	28	100x100x100	10000	1	2 440	2 440	328	32.8	2
RSS 44		30-Jul-19	27-Aug-19	28	100x100x100	10000	1	2 412	2 412	320	32.0	2
RSS 45		30-Jul-19	27-Aug-19	28	100x100x100	10000	1	2 422	2 422	325	32.5	2
						Average		2 428	2 428	322.3	32.2	
						Standard Deviation		13.4	13.4	5.3	0.5	

Press: EQ 003
Scale: EQ 008 Tested by: DIKETSO

CUBES MADE BY CONTRACTOR

DEVIATIONS, EXTENSIONS OR EXCLUSIONS
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Normative references:
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SANS 5860
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Member: A.D.R. de Kock

W L 5 10 1 tel Rev 06 Eff. Date 23-03-2017

Failure Mode:

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