DarCole Products, Inc. 1940 US 41 South Sebree, KY 42455 USA (270) 826-6499

Customer:	Fc Mix					
Description:	4000PSI with Air					
Air Dong		Mininum	3.0%			
Air Range	2.	Maximum	7.0%			
Slump Ban	7 01	Mininum	3"			
Slump Ran	ge.	Maximum	5"			
Aggrogato R	atio	Coarse	57%			
Aggregate R	atio.	Fine	43%			

Mix Code:	UTFCM4KEXT1	01520			
Date:	10/15/2020				
Compressive	4000 PSI				
Compressive .	4000 F 31				
Mortar Con	57.3%				
Paste Cont	31.2%				
Mix Suitabilit	24.75				
Unit Wei	141.1				
Water/Ceme	0.45				

	Material Description	Specification	Quantity (lbs)	Density	Volume
Cementious					
Cement	Holcim 1P Blend	ASTM C-150	564	3.000	3.01
Coarse Aggregates					
Coarse Aggregate 1	Kilgore 21-05014 #67 Washed Rock	ASTM C-33	1675	2.554	10.51
Fine Aggregates					
Fine Aggregate 1	Kilgore 22-09514 Washed Concrete Sand	ASTM C-33	1316	2.618	8.06
	Water:	30.4 gallons	253.8	1.000	4.07
	Ai	ir Content 5.0%			1.35
		Total:	3809		27.00

Material Description	Specification	OZ/CWT	Density	OZ/YD	
DarCole Synthetic Air 110	AASHTO M-154	1.5 <u>33.84</u>	1.000	8.46	
DarCole Products DarNlok 785	AASHTO M-194 Type A	10 169.2	1.030	56.40	
	DarCole Synthetic Air 110	DarCole Synthetic Air 110 AASHTO M-154	DarCole Synthetic Air 110AASHTO M-1541.533.84	DarCole Synthetic Air 110 AASHTO M-154 1.5 33.84 1.000	

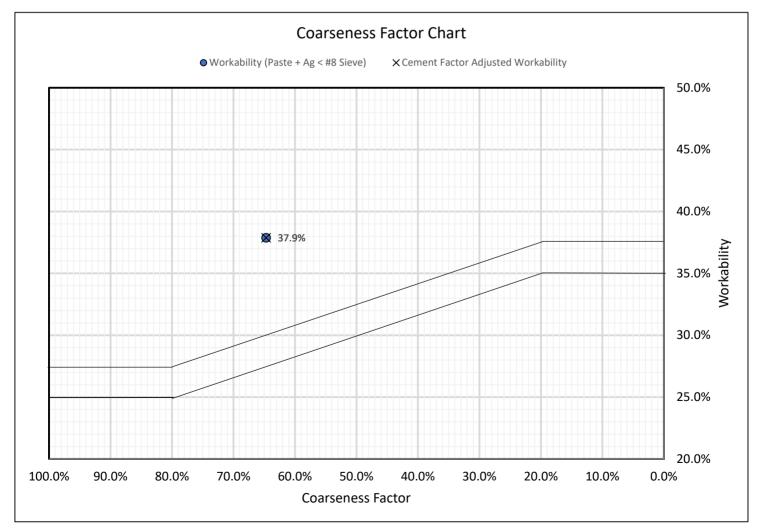
Reported by:	Ryan Risley-DarCole Products Inc.	Approval by:	
Date:	10/15/2020	Date:	

Disclaimer: The information in this chart is to the best of our knowledge, reliable. Users should make their own tests to determine the suitability of these for their own particular purposes. DarCole Products, Inc. makes no warranty of any kind, express or implied, including those of merchantable and fitness for purpose.



DarCole Products, Inc. 1940 US 41 South Sebree, KY 42455 USA (270) 826-6499

								USA (270) 826-64
Cu	Customer: Fc Mix				Code:	UTFCM4K	EXT10152	כ	
De	Description: 4000PSI with Air					10/15/202	20		
			Mix Anala	ysis					
57.3%	% Mortar					Paste a	& Mortar		
40.2%	% Ag Retaine	d on 3/8 Sieve			Vol	%Total	% Agg	%Mortar	%Paste
21.9%	% Ag Passing	3/8 but Retained on #8 Sieve		+3/8	7.46	27.6%	40.2%		
64.7%	Coarseness Fa	actor		3/8-#8	4.07	15.1%	21.9%		
37.9%	Workability (I	Paste + Ag < #8 Sieve)		+#8	11.53	42.7%	62.1%		
37.9%	Cement Facto	-#8	7.03	26.1%	37.9%	45.5%			
21.20	Modified Spe	cific Surface		Mortar	15.46	57.3%			
24.75	Mix Suitabilit	y Factor		Paste	8.43	31.2%		54.5%	
	Mix Suitabil	ity Factor Guidelines	Slump Range	Powder	3.01	11.2%		19.5%	35.7%
16-20	L	Instable, too Harsh	0	Air	1.35	5.0%		8.7%	16.0%
20-22	Harsh Mixes-Heavy Vibration 0-2			Water	4.07	15.1%		26.3%	48.2%
22-25	Hard Wearing-Slabs, Precast 2-3.5				27.00	100.0%	100.0%	100.0%	100.0%
25-27	S	tructural Concrete	3-4	3-4 Calculated for Total					
26-28	Good Pump	able Concrete=Good Surface	4-5						
27-31	Pumpa	ble, Lightweight, Flowing	>8						

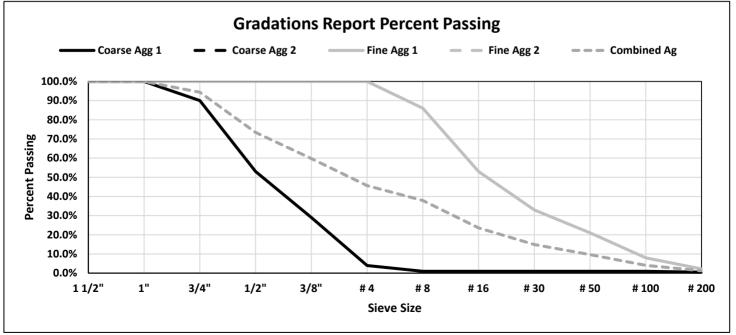




DarCole Products, Inc. 1940 US 41 South Sebree, KY 42455

USA (270) 826-6499

USA (270) 820-0499												
Custo	mer:	Fc Mix					Mix	Code:	ι	JTFCM4KI	EXT10152	0
Descri	ption:	4000PSI \	with Air	vith Air Date: 10/15/2020								
					Aggregat	e Sieve A	nalysis					
Sieve Coarse Agg 1 Coarse Agg 2 Fine Agg 1 Fine Agg 2					Agg 2	Combi	ned Ag	Paste	+Agg			
1 1/2"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
1"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
3/4"	90.0%	10.0%			100.0%	0.0%			94.3%	5.7%	96.1%	3.9%
1/2"	53.0%	47.0%			100.0%	0.0%			73.4%	26.6%	81.7%	18.3%
3/8"	29.0%	71.0%			100.0%	0.0%			59.8%	40.2%	72.4%	27.6%
#4	4.0%	96.0%			100.0%	0.0%			45.7%	54.3%	62.6%	37.4%
# 8	1.0%	99.0%			86.0%	14.0%			37.9%	62.1%	57.3%	42.7%
# 16	1.0%	99.0%			53.0%	47.0%			23.6%	76.4%	47.4%	52.6%
# 30	1.0%	99.0%			33.0%	67.0%			14.9%	85.1%	41.5%	58.5%
# 50	1.0%	99.0%			21.0%	79.0%			9.7%	90.3%	37.9%	62.1%
# 100	1.0%	99.0%			8.0%	92.0%			4.0%	96.0%	34.0%	66.0%
# 200	0.5%	99.5%			2.2%	97.8%			1.2%	98.8%	21.6%	78.4%
# 325	0.0%	100.0%			0.0%	100.0%			0.0%	100.0%		
% Agg	56.	.6%			43.	4%						
Perc	cent Passi	ing							Fine	Agg 1	Fine /	Agg 2
Percent Retained					F.M.		99					
Coars	e Aggrega	ate 1	Kilgore 21-05014 #67 Washed Rock			F.M. Guidelines						
Coars	e Aggrega	ate 2							Fine Sand	ł	2.2-	2.6
Fine	Aggregat	e 1	Kilgore	22-0951	.4 Washe	d Concre	te Sand	M	edium Sa	nd	2.6-	-2.9
	Aggregat		-					C	oarse Sar	nd	2.9-	-3.2





DarCole Products, Inc. 1940 US 41 South

Sebree, KY 42455

USA (270) 826-6499

Customer:	Fc Mix	Mix Code:	UTFCM4KEXT101520
Description:	4000PSI with Air	Date:	10/15/2020

	Individual Percent Retained								
Sieve	Coarse Agg 1	Coarse Agg 2	Fine Agg 1	Fine Agg 2	Combined Ag	Paste + Ag			
1 1/2"	0.0%		0.0%		0.0%	0.0%			
1"	0.0%		0.0%		0.0%	0.0%			
3/4"	10.0%		0.0%		5.7%	3.9%			
1/2"	37.0%		0.0%		20.9%	14.4%			
3/8"	24.0%		0.0%		13.6%	9.3%			
#4	25.0%		0.0%		14.2%	9.7%			
#8	3.0%		14.0%		7.8%	5.3%			
# 16	0.0%		33.0%		14.3%	9.8%			
# 30	0.0%		20.0%		8.7%	6.0%			
# 50	0.0%		12.0%		5.2%	3.6%			
# 100	0.0%		13.0%		5.6%	3.9%			
# 200	0.5%		5.8%		2.8%	12.4%			
% Agg	56.6%		43.4%						

Coarse Aggregate 1 Coarse Aggregate 2 Fine Aggregate 1 Fine Aggregate 2 Kilgore 21-05014 #67 Washed Rock

Kilgore 22-09514 Washed Concrete Sand

