

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

Customer:	Fc Mix
Description:	100PSI Flowable Fill

Air Pango:	Mininum	15.0%
Air Range:	Maximum	20.0%
Chump Dangar	Mininum	8"
Slump Range:	Maximum	12"
Aggregate Patio:	Coarse	0%
Aggregate Ratio:	Fine	100%

Mix Code:	UTFCM125FF11920
Date:	11/9/2020

Compressive Strength:	100 PSI
Mortar Content %:	91.4%
Paste Content %:	38.3%
Mix Suitability Factor:	36.31
Unit Weight:	116.6
Water/Cement ratio:	2.40

	Material Description		Specific	cation	Quantity (lbs)	Density	Volume
Cementious							
Cement	Holcim 1P Blend		ASTM (C-150	125	3.000	0.67
Low Speed Ceme	ent						
Coarse Aggregates							
Fine Aggregates							
Fine Aggregate 1	Kilgore 22-09514 Washed Concrete	Sand	ASTM	C-33	2722	2.618	16.66
55% - Coarse Si 45% - Fine Side		Water: Air	36.0 Content	gallons 18.0%	300	1.000	4.81 4.86
				Total:	3147		27.00

Admixture(s)	Material Description	Specification	OZ/CWT	Density	OZ/YD
DSA 110	DarCole Synthetic Air 110	AASHTO M-154	5	1.000	6.25
DNL 785	DarCole Products DarNlok 785	AASHTO M-194 Type A	70	1.030	87.50

Reported by:	Ryan Risley-DarCole Products Inc.	Approval by:	
Date:	11/9/2020	Date:	

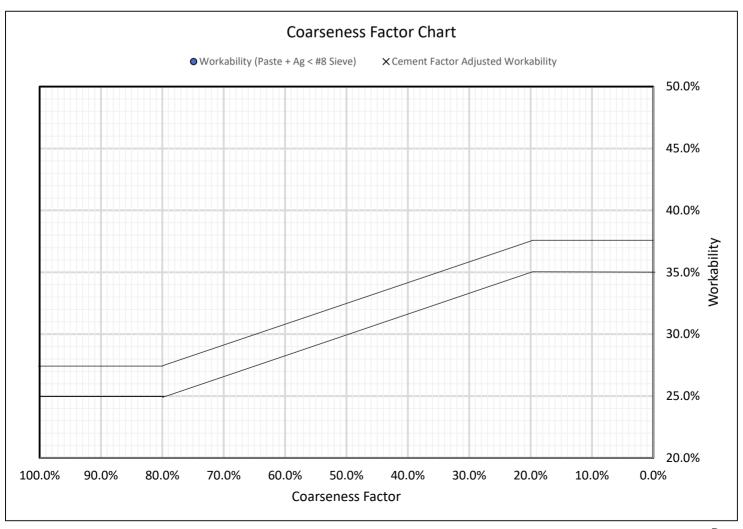
Disclaimer: The information in this chart is to the best of our knowledge, reliable. Users should make their own tests to determine the suitability of these for their own particular purposes. DarCole Products, Inc. makes no warranty of any kind, express or implied, including those of merchantable and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



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	Mix Analaysis									
91.4%	% Mortar				Paste	& Mortar				
0.0%	% Ag Retained on 3/8 Sieve			Vol	%Total	% Agg	%Mortar	%Paste		
14.0%	% Ag Passing 3/8 but Retained on #8 Sieve		+3/8	0.00	0.0%	0.0%				
0.0%	Coarseness Factor		3/8-#8	2.33	8.6%	14.0%				
86.0%	Workability (Paste + Ag < #8 Sieve)		+#8	2.33	8.6%	14.0%				
74.3%	74.3% Cement Factor Adjusted Workability				53.1%	86.0%	58.1%			
41.52	41.52 Modified Specific Surface				91.4%					
36.31	Mix Suitability Factor		Paste	10.34	38.3%		41.9%			
	Mix Suitability Factor Guidelines	Slump Range	Powder	0.67	2.5%		2.7%	6.5%		
16-20	Unstable, too Harsh	0	Air	4.86	18.0%		19.7%	47.0%		
20-22	Harsh Mixes-Heavy Vibration	0-2	Water	4.81	17.8%		19.5%	46.5%		
22-25	22-25 Hard Wearing-Slabs, Precast 2-3.5				100.0%	100.0%	100.0%	100.0%		
25-27	Structural Concrete	3-4	Calculated for Total							
26-28	Good Pumpable Concrete=Good Surface	4-5				<u>-</u>				
27-31	Pumpable, Lightweight, Flowing	>8								





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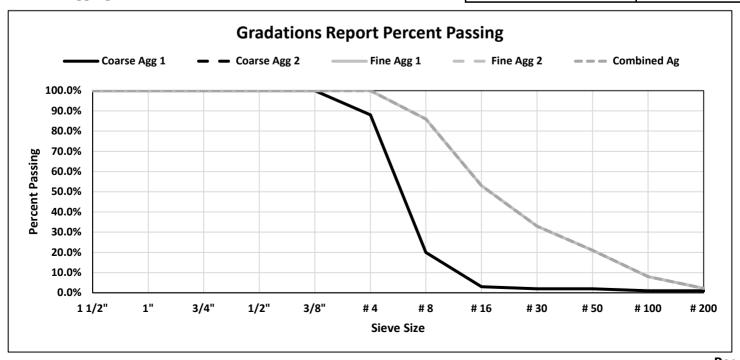
Aggregate Sieve Analysis												
Sieve	Coarse	Agg 1	Coarse	Agg 2	Fine /	Agg 1	Fine A	Agg 2	Combi	ned Ag	Paste	+Agg
1 1/2"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
1"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
3/4"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
1/2"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
3/8"	100.0%	0.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
# 4	88.0%	12.0%			100.0%	0.0%			100.0%	0.0%	100.0%	0.0%
# 8	20.0%	80.0%			86.0%	14.0%			86.0%	14.0%	91.4%	8.6%
# 16	3.0%	97.0%			53.0%	47.0%			53.0%	47.0%	71.0%	29.0%
# 30	2.0%	98.0%			33.0%	67.0%			33.0%	67.0%	58.6%	41.4%
# 50	2.0%	98.0%			21.0%	79.0%			21.0%	79.0%	51.2%	48.8%
# 100	1.0%	99.0%			8.0%	92.0%			8.0%	92.0%	43.2%	56.8%
# 200	1.0%	99.0%			2.2%	97.8%			2.2%	97.8%	26.8%	73.2%
# 325	0.0%	100.0%			0.0%	100.0%			0.0%	100.0%		
% Agg					100	.0%						

Percent Passing
Percent Retained

Coarse Aggregate 1 Coarse Aggregate 2 Fine Aggregate 1 Fine Aggregate 2

Kilgore 22-09514 Washed Concrete Sand

	Fine Agg 1	Fine Agg 2					
F.M.	2.99						
	F.M. Guidelines						
I	ine Sand	2.2-2.6					
Me	edium Sand	2.6-2.9					
Co	oarse Sand	2.9-3.2					





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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"	0.0%		0.0%		0.0%	0.0%		
1/2"	0.0%		0.0%		0.0%	0.0%		
3/8"	0.0%		0.0%		0.0%	0.0%		
# 4	12.0%		0.0%		0.0%	0.0%		
# 8	68.0%		14.0%		14.0%	8.6%		
# 16	17.0%		33.0%		33.0%	20.4%		
# 30	1.0%		20.0%		20.0%	12.3%		
# 50	0.0%		12.0%		12.0%	7.4%		
# 100	1.0%		13.0%		13.0%	8.0%		
# 200	0.0%		5.8%		5.8%	16.4%		
% Agg			100.0%					

Coarse Aggregate 1

Coarse Aggregate 2

Fine Aggregate 1

Kilgore 22-09514 Washed Concrete Sand

0

Fine Aggregate 2

