



Mix Designs and technical properties of LithoPore®

Product	LithoPore®75	LithoPore®100	LithoPore®200	LithoPore®300	LithoPore®400	LithoPore®500	LithoPore®600	LithoPore®700
Dry Density (kg/m ³)	75	100	200	300	400	500	600	700
Wet Density (kg/m ³)	180-185	215-220	305-315	405-415	510-525	610-660	710-760	810-860
Cement quantity (kg/m ³)	60	80	170	240	250	250	250	320
Cement Type	CEM I 52,5 R	CEM I 52,5 R	CEM I/II/III 42,5 R	CEM I/II/III 42,5 R	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N
Blaine (cm ² /g)	>5200	>5200	>4000	>4000	>3500	>3500	>3500	>3500
Water (kg/m ³)	33	45	77	108	125-165	150-225	150-225	150-225
Aggregate, filler 1 (kg/m ³)	0	0	0	0	85	185	285	300
Type					Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate
Aggregate, filler 2 (kg/m ³)	0	0	0	0	0	0	0	0
Type								
Foaming Agent LithoFoam® SL 200-L (kg/m ³)	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*
Network former LithoFoam® NWF S (kg/m ³)			5	5	4 (optional)	3 (optional)	3 (optional)	3 (optional)
Network former LithoFoam® NWF NT (kg/m ³)	20	20						
Stabilizer LithoFoam® MRF 200-S (kg/m ³)	0.6	0.6	0.6	0.6	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)
Foam Quantity (kg/m ³)	70.5	70.5	64.3	64.3	59.2	55.6	52	49.2
Foam Quantity (Lit./m ³)	881	881	804	804	740	695	650	615
Foam Weight (gramm/liter)	80	80	80	80	80	80	80	80
Compressive strength (MPa), 28 days	0.15-0.20	0.25-0.30	0.25-0.40	0.6-1.0	1.5-2.3	1.8-3.1	2.1-4.0	2.8-5.0
Thermal conductivity (W/m*K)	0.035-0.038	0.038-0.045	0.06-0.065	0.08-0.085	0.095-0.105	0.13-0.15	0.17-0.19	0.19-0.21

*the effective injection rate depends on the quality of the respective raw materials



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Product	LithoPore®800	LithoPore®900	LithoPore®1000	LithoPore®1100	LithoPore®1200	LithoPore®1300	LithoPore®1400
Dry Density (kg/m ³)	800	900	1000	1100	1200	1300	1400
Wet Density (kg/m ³)	915-965	1015-1065	1110-1160	1210-1260	1305-1355	1405-1455	1500-1550
Cement quantity (kg/m ³)	320	320	320	320	320	320	320
Cement Type	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N
Blaine (cm ² /g)	>3500	>3500	>3500	>3500	>3500	>3500	>3500
Water (kg/m ³)	150-225	150-225	150-225	150-225	150-225	150-225	150-225
Aggregate, filler 1 (kg/m ³)	395	495	395	395	395	395	395
Type	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate	Fly ash, calcium carbonate
Aggregate, filler 2 (kg/m ³)	0	0	200	300	400	500	600
Type			Fine sand, 0-1 mm	Fine sand, 0-1 mm	Fine sand, 0-1 mm	Fine sand, 0-1 mm	Fine sand, 0-1 mm
Foaming Agent LithoFoam® SL 200-L (kg/m ³)	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*	subject to injection rate*
Network former LithoFoam® NWF S (kg/m ³)	3 (optional)	3 (optional)	3 (optional)	3 (optional)	3 (optional)	3 (optional)	3 (optional)
Network former LithoFoam® NWF NT (kg/m ³)							
Stabilizer LithoFoam® MRF 200-S (kg/m ³)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)
Foam Quantity (kg/m ³)	46.4	44.4	42.4	40	36.8	33.3	29.6
Foam Quantity(Lit./m ³)	580	555	530	500	460	415	370
Foam Weight (gramm/liter)	80	80	80	80	80	80	80
Compressive strength (MPa), 28 days	3.5-6.0	4.2-6.5	5.0-7.0	6.0-8.0	7.0-9.0	7.5-10.5	8.0-12.0
Thermal conductivity (W/m*K)	0.21-0.23	0.25-0.28	0.30-0.33	0.34-0.38	0.38-0.42	0.41-0.45	0.44-0.47

*the effective injection rate depends on the quality of the respective raw materials