



Mix Designs and technical properties of LithoPore®

Product	LithoPore®200	LithoPore®300	LithoPore®400	LithoPore®600	LithoPore®800	LithoPore®1000	LithoPore®1200	LithoPore®1400
Dry Density (kg/m ³)	200	300	400	600	800	1000	1200	1400
Wet Density (kg/m ³)	305-315	405-415	510-525	710-760	915-965	1110-1160	1305-1355	1500-1550
Cement quantity (kg/m ³)	170	240	250	250	320	320	320	320
Cement Type	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	CEM I/II/III 42,5 N	CEM I/II/III 42,5 N
Blaine (cm ² /g)	>4000	>4000	>3500	>3500	>3500	>3500	>3500	>3500
Water (kg/m ³)	77	108	125-165	150-225	150-225	150-225	150-225	150-225
Aggregate, filler 1 (kg/m ³)	0	0	85	285	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
Aggregate, filler 2 (kg/m ³)	0	0	0	0	0	200	400	600
Type						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*	subject to injection rate*
Network former LithoFoam® NWF S (kg/m ³)	5	5	4 (optional)	3 (optional)	3 (optional)	3 (optional)	3 (optional)	3 (optional)
Stabilizer LithoFoam® MRF 200-S (kg/m ³)	0.6	0.6	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)	0.6 (optional)
Foam Quantity (kg/m ³)	64.3	64.3	59.2	52	46.4	42.4	36.8	29.6
Foam Quantity(Lit./ m ³)	804	804	740	650	580	530	460	370
Foam Weight (gramm/liter)	80	80	80	80	80	80	80	80
Compressive strength (MPa), 28 days	0.25-0.40	0.6-1.0	1.5-2.3	2.1-4.0	3.5-6.0	5.0-7.0	7.0-9.0	8.0-12.0
Thermal conductivity (W/m*K)	0.06-0.065	0.08-0.085	0.095-0.105	0.17-0.19	0.21-0.23	0.30-0.33	0.38-0.42	0.44-0.47

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