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FuturZement C.1 | FuturBeton C.1

nanostructured cement/concrete

all advantages for EUR 7,00 / ton of concrete (additional full cost, CM900, Germany 2012-10)



Industry:

steel-industry

construction-industry with FuturBeton can build more faster | sleeker | higher | cost-effective

> | durable | environmentally friendly with | better surface and | less steel the today's semi-waste GGBS turns into a super-activated high value

product (30% additive to OPC > FuturZement)

Product/innovation 100% ready to market proved:

technologically public bridge in Germany!

+7,00 EUR/ton as of 43.000 tons p. a. (1x Simoloyer® CM900) economically 20 % CO2-emission savings in cement manufacturing process ecologically

Technical advantages:

strength 100-120 MPa after 28 days early strength 40 MPa on the first day

durability & surface super fine pores, to date full performance after 1 year under water application except Simoloyer® plant, common cement/concrete processing route

Cost advantages:

higher strength less material, replace steel

higher early strength \rightarrow build faster

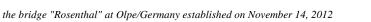
higher durability less material, build less often better surface

can represent cost-advantages as well CO2 savings can represent cash earnings/savings as well

Schedule & volumes	option (a)	option (b)	option (c)
equipment scale Simoloyer®:	CM100	CM400	CM900
estimated annual production and CO2-saving capability [t]			
GGBS	240	960	2.160
good for FuturZement/cement	800	3.200	7.200
good for FuturBeton/concrete	4.800	19.200	43.200
results in an annual CO2-emission saving	95	380	855
cost approximates and schedule			
additional product cost per ton of concrete, based on German full-cost calculation, 10-2012	€ 22,00	€ 10,00	€ 7,00
time-scale, set-up/start of the new production/product line	10 months	16 months	20 months
total cost at partner Zoz [Mio€]	1,0	2,1	3,2
total cost at partner a, b [Mio€]	tbc	tbc	tbc

















12 ton roof balustrade, Villa ZCS at Siegen/Germany established on June 21, 2013