

C5 Innovation Aps

Your partner for surface coating

New Build and Architectural Impacts Area



HERACLEX – UHPC (Ultra High Performance Concrete)

- ✓ Reduced materials requirements by 20% to 30% resulting lower consumption and reduced CO2 impacts
- ✓ Higher Strengths – Compressive and Flexural – allowing lighter and more unique designs to be achieved in Exterior Facades/Outer Envelopes without lowering strength and while extending overall **Life Cycle** performance
- ✓ Unique Public Furniture design with Triple Life of standard concrete performance
- ✓ Reduced Time Scale for project completion by using precast UHPC Panels or GFR Panels to construct Exterior Facades/Outer Envelopes
- ✓ Reduction of **Long-Term Maintenance Cost**
- ✓ Elimination of **Freeze Thaw** effect



Company location: C5 Innovation Aps
Denmark - Germany - Ukraine

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CAM 110 and SA CAM 110

- Increased Life Cycle Performance
- Reduction of Curing for concrete on project by 40% to 50% (**Fast Track Construction**)
- Foot Traffic (Trades People) on the slab within 24 hours and point loads within 4 days (Scaffolding and Forklifts)
- Elimination of Water Ponding Curing
- **Waterproofing** of design matrix from the initial pour for the Life Cycle of the project (With a onetime treatment)
- Reduction of Freeze Thaw effects
- Replacement of **Multiple Additives and Coatings** with a Single Product
- Elimination of Chloride and Chemical attacks
- Elimination of staining from environmental effects
- Elimination of Efflorescence (Salt Blooms) post placement
- Install Flooring Systems within 14 days of initial placement of slab concrete
- Stabilization of Colorization of design mix (Elimination of Color fading)

CONCRETE ADDITIVES (To be Eliminated)	Approximate Consumption Kg/m3	Cost per €/kg	Cost €/m3
Anti -Cracking Fibers	0.6kg	€8,3	€ 5
Internal Waterproofing	5.6kg	€3,75	€ 21
Superplasticizer	7kg	€3,95	€27,65
Hardening Accelerator	14kg	€3,7	€51,5
Retraction Reducer	10-40 kg	€4,75	€47,5
Inhibitor Corrosion	8.4kg	€5,40	€45,35
Additives for submerged concrete	3.22kg	€ 21	€67,62
Additive Micro-Silica	28.2kg	€1,75	€49,35
Inhibitor 0, 6kg (2 layers)	0, 6kg (2 layers)	€80 /l	€ 96
CAM 110 Mix Design # 1 - Mix Grade in fcu of C 35 (cube) - (0.4 W/C free)	2.6 Liters	€ 7.00	€ 18.20
Waterproofing (To be eliminated)			
Polyurea Coating	2.5kg	€13,75	€34,35
Cement Coating	1kg (3 ply)	€1,85	€5,55
Bitumen Coating	0, 65Kg (per cover)	€5,75	€3, 5/cover
SA CAM 110	1litre = 6.25m2	€ 8.90	€ 1.43

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