2012 Winner!
MIP most innovative products at World Of Concrete
hanley wood

PRIMEKSS

PrimeComposite Slab on grade

...durable and tough concrete with a large amount of steel fibers

Concrete is strong under compression, but brittle under tension or flexion. The **PrimeComposite** technology developed by Primekss produces concrete that is so strong and tough that floors built using it are not only more durable and almost crack-free, but are also economical to build, as the very tough concrete allows for thinner designs.

...floor without joints

Our knowledge in creating a steel fiber-reinforced Non-shrink concrete flooring system lets us eliminate the joints in concrete, and consequently, post installation problems. Shrinkage and other joints in concrete are like potholes on the road – they slow down traffic and damage vehicles. Our jointless flooring systems bring multiple benefits to the end user:

- Jointless surface: shrinkage joints in the floor are like potholes on the road slowing down traffic. **PrimeComposite** is jointless in areas up to 6000 m^2 (650000 sq ft)

No joints means flatter floors with faster traffic and thus improves:

- functionality of the floor and flexibility of floor use as racks and equipment can be placed without consideration for joint placements;
- very good for robotic driverless forklifts as no joints means no disturbance
- increased productivity as no joints means no slowing down;
- no detrimental effect of shrinkage, curling is eliminated;
- enhanced durability of the floor;
- reduced long term floor maintenance costs;
- no requirement to fill or maintain saw – cut joints;
- improved hygiene;
- long term profitability; higher residual value
- increased market value of the building.

... floor in the right place

PrimeComposite Jointless floors are recommended in warehouses, large stores, parking garages, industrial factories, sports halls, etc.

... ecology

The concrete industry is responsible for 5% of global CO_2 emissions. Building floors with **PrimeComposite** produces up to 50% less CO_2 than usual.

ECOLOGY eko ECONOMY ™

EXPORT AND INNOVATION AWARD 2009 LATVIA Innovative Product

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www.primekss.com info@primekss.com
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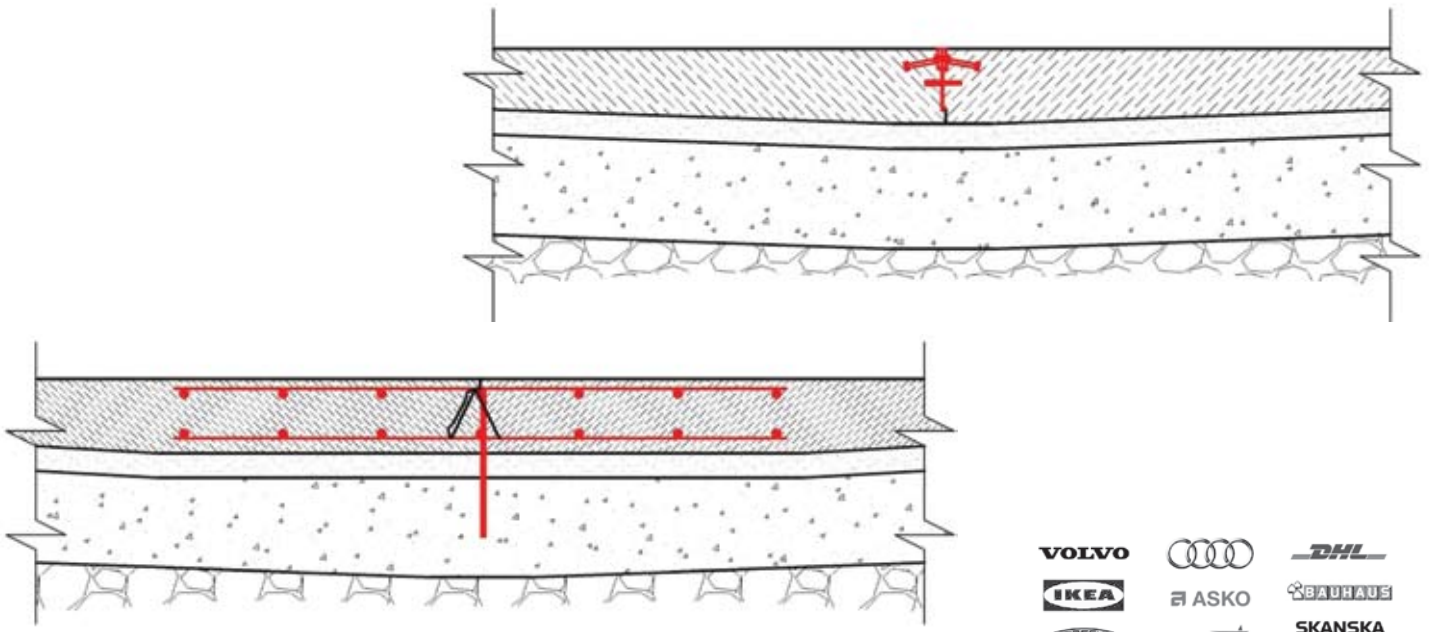
Product technical table

Material properties of PrimeComposite	Compressive strength class (after 90 days measured at defined prisms acc. to EN 13892 – 1)	C30/37	Modulus of elasticity, GPa (ksi) (BS EN 1992 – 1 – 1)	31 (4496)
	Flexural plastic tensile strength, MPa (ksi) (derived from plate tests according to SIA 16216)	2 – 3 (0,29 – 0,43)	Steel fibers tensile strengh, MPa (ksi) (grade A steel fibers)	750 – 1600 (108 – 232)
Chemical resistance/ Exposure conditions	Corrosion induced by carbonation (DIN – EN – 206 – 1)	XC4	Freeze / Thaw attack (DIN – EN – 206 – 1)	XF1
	Corrosion induced by chlorides from sea water (DIN – EN – 206 – 1)	XD1	Water resistance (DIN – EN – 206 – 1)	W_6
	Chemical attack (DIN – EN – 206 – 1)	XA1	Surface (Wear resistance with PrimeTop 5kg/m^2 according to DIN – EN – 206 – 1)	XM_3
	Jointless , flat surface area	6000 m^2 (65000 sq ft)	* Values listed in table are for typical indoor applications; * Product characteristic values can be adjusted to specific design requirements.	

Typical PrimeComposite slab on grade solutions



PrimeComposite is offered worldwide.
Technology licensing opportunities for select qualified contractors available.

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