

Kemfloor CSL

Self-Leveling, Cementitious Floor Underlayment

Description	Kemfloor CSL is a ready-mixed, pre-blended mix of portland cement & special additives, high performance specially formulated, high strength polymer modified cementitious underlayment with no shot blasting or scarifying required Kemfloor CSL was developed to resurface, level, and repair indoor surfaces prior to subsequent toppings	
Where to use	Kemfloor CSL is for renovating existing commercial and residential structures to correct irregularities in uneven floors Kemfloor CSL is used in: • Resurface precast or cast-in-place concrete • Remodeling work • It accepts practically any floor covering • Underlayment for the surface to be covered with carpeting, vinyl, ceramic tile, and many other compatible coverings	
Advantages	Kemfloor CSL provides the following advantages: • Self-leveling thus eliminates troweling • Low Shrinkage not gypsum-based • Cuts labor costs • Low tension build-up and excellent final grip • Can be feather edged • Excellent adhesion to clean concrete • High strength • Self-curing	
Properties		
Initial curing time	2 Hours	
Thickness	2 – 6 mm / Layer	
Working time	30 - 40 minutes at 20 °C	
Compressive Strength	35 - 40 N/mm ² (28 days)	ASTM C579
Flexural Strength	11 - 12 N/mm ²	ASTM C580
Bond Strength	≥ 1.5 N/mm ²	ASTM C321
Linear Shrinkage	0.9%	ASTM C531
Specific gravity	2 ±0.2	
Surface Preparation	• All floors must be cured and free of any waste, oil, moisture, dust, or paint particles • Remove any liquid curing agents by sanding • The substrate surface shall be broom clean and contaminate free • Cracks should be filled with a crack filler or treated by Kemrepair EP and a bonding agent such as Kembond EP • Plumbing or electrical penetration should be packed with insulation and sealed • Saturate the concrete surfaces with clean water to maintain a saturated surface dry (SSD) prior the application of Kemfloor CSL • Surface should have a minimum compressive strength of 25 N/mm², and a pull off strength at minimum 1.5 N/mm²	
Expansion Joints	Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint	
Mixing	The Kemfloor CSL should be mechanically mixed using a 650-rpm power mixer or manufacturer approved mixing/pumping equipment Each 25 kg of Kemfloor CSL requires 5 - 5.5 L of clean water	

Application	• Pour Kemfloor CSL over wet concrete substrate • Work as needed with a long handle spreader or spiked roller • Kemfloor CSL is self-leveling during the first 15 minutes • For thickness more than 6mm, advised to work on multiple layers and leave 24 hours between each layer • Clean all the tools immediately after application using a clean water
Curing	• Kemfloor CSL is self-curing • Do not apply curing compound or water curing and protect from rapid evaporation
Theoretical coverage	2 Kg/m ² /1mm (thickness)
Packaging	25 Kg Sack
Shelf life & Storage	Kemfloor CSL has a shelf life of 12 months in recommended conditions
Precaution	• Do not pour Kemfloor CSL where the floor temperature is less than 5 °C or greater than 30 °C • Protect the poured mortar from wind & sun and from freezing temperatures for the first 72 hours • The concrete sub-floor must be structurally sound & able to withstand live & dead loads • Kemfloor CSL will not structurally bridge over expansion joints; saw cuts, or structurally cracks, they should be allowed to continue through the Kemfloor CSL
Health and Safety	• Use goggles, gloves, and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water • If ingested seek medical advice
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction PROKEM reserves the right to change the properties of its products All orders are accepted subject to our current term of sale & delivery Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request PROKEM extends technical services to include after sales support to assist users in a proper handling of our product