

Kemfloor TZC

Cement – Base Terrazzo Flooring

Description	Kemfloor TZC Terrazzo flooring is a Cement -Base binder composition that incorporates a special blend of marble chips, or colored quartz aggregates. Kemfloor TZC requires minimal grinding, resulting in a terrazzo finish that is thin-section, joint-less, and extraordinarily durable. Typically installed to a thickness of (20 – 30 mm). Kemfloor TZC Terrazzo is available in a wide range of custom background colors.	
Where to use	Any areas where terrazzo floors are traditionally used, including: • Restaurants & cafes • Car showrooms • Hotel receptions & shopping centers • Hospitals & pharmaceutical manufacturing, etc. • Airport terminals & railway stations/platforms • Government buildings & public buildings	
Advantages	Kemfloor TZC is characterized by the following advantages: • Seamless, durable & decorative • Excellent compressive & flexural strength • Impressive design capabilities (i.e. incorporate company logo, motifs, etc.) • Highly versatile, no shrinkage, repairable, low maintenance & easy to clean	
Properties		
Density	2300 Kg/m ³	
Pot life	45 - 60 minutes at 23 °C	
Coefficient of thermal expansion	11x10 ⁻⁶ / °C	
Compressive strength	40 - 45 N/mm ²	
Flexural strength	6 - 8 N/mm ²	
Water absorption	Nil	
Bond strength	2.5 – 3 N/mm ²	
Modulus of elasticity	315 N/mm ²	
Abrasion resistance	A6	EN 13892-3
Fire resistance	Spread of Flame Class A1	EN 13501-1
Initial cure @ 20 °C	24 hours	
Final cure @ 20 °C	28 days	

Surface Preparation	New poured concrete: Concrete compressive >25 N/mm² & Bond strength >1.5 N/mm² Allow to fully cure 28 days prior to application. Prepare the surface using a suitable mechanical mean such as grinding, shoot blasting Old concrete: Thoroughly clean the surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding, or grinding. Proceed as for newly poured concrete. Previously coated concrete: Remove any peeling or degraded paint by sanding or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete. All damaged areas, cracks, and surface irregularities must be removed by a suitable mechanical mean and repaired by using a bonding layer of Kembond A followed by a proper material of Kemrepair range Note that surface levelness should be respected.
Expansion Joints	• Shall be installed in accordance with local building codes • Never bridge an expansion, contraction, or construction joint
Mixing	• Flip the contents of Kemfloor TZC within its sealed bag before opening to disperse any settlement and assure proper distribution of colored chips • Add 2.5 - 3 liters of clean water to a proper sized container • Add Kemfloor TZC gradually to the container and mix for 2 - 3 minutes with a low-speed drill • Mechanical mixing is recommended until a homogeneous and uniformly moist mixture is obtained
Application	• Apply a priming coat based on surface type/condition: • Maintain moisture content is $\leq 4\%$ - Kembond EP at a consumption rate of 0.2 – 0.35 Kg / m² / or - Sealer E45 at a consumption rate of 0.2 – 0.25 Kg / m² • immediately after mixing of Kemfloor TZC, spread by a hand trowel or sledge onto the primed floor while it's still tacky, <u>slightly thicker than the required thickness</u> • Compact and finish to the required thickness using a steel blade trowel • Rough wet grind the surface after a minimum of 72 hours based on temperature • Apply a grouting coat of Kemfloor TZC mixed with 4 – 4.5 liters of clean water, using a light trowel or squeegee to fill voids and allow to dry for a minimum of further 72 hours • Fine grinding is to be applied, clean thoroughly by vacuum, and apply polishing stage if required • Apply Kemfloor Sealer PS with a low-pressure sprayer thinly over the floor, and use stiff brushes for evenly distributing the material • Allow curing for 4 - 6 hours at 20 °C before light traffic
Cleaning	Tools and equipment should be cleaned with PROKEM solvent immediately after use

Theoretical coverage	• Primer: - Kembond EP: at a consumption rate of 0.2 – 0.35 Kg / m² - Sealer E45: at a consumption rate of 0.2 – 0.25 Kg / m² • Body Coat: Kemfloor TZC: 2.3 Kg/m²/ 1mm thick • Grouting Coat: Kemfloor TZC: According to surface conditions • Top Coat: Kemfloor Sealer PS: 0.15 – 0.2 Kg/m²
Packaging	Kemfloor TZC: 25 Kg bags
Shelf life & storage	Kemfloor TZC has a shelf life of 12 months if kept in its original packs in a dry condition
Precautions	• Substrate should be fully cured prior to the application of Kemfloor TZC • The substrate must be structurally sound, cleaned of any foreign matter that will inhibit adhesion and dry • This product should be installed at a substrate temperature between 10°C (50°F) and 30 °C (85°F) • The Engineer and owner should address joint details prior to the job start with the flooring contractor
Health and Safety	• Use gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Skin splashes to be removed with hand cleanser, soap, and water • Eye splashes are to be removed 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 structures. PROKEM designs tailor made products should there be a 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 terms 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 the proper handling of our products.