

Kemfloor MS/EP Thermodry

Heavy Duty, Thermal Insulation Epoxy Resin Mortar Floor Screed

Description	Kemfloor MS/EP Thermodry is a solvent-free 3-pack components high-performance epoxy mortar screed, for extremely high strength and exceptional thermal & chemical resistance floor topping.
Where to use	• It provides an extremely high-strength floor topping with exceptional resistance to abrasion from mechanical wear and chemical spillage, which is impervious, and at the same time produces a safe non-slips finish for personal traffic. It contains Nano; micro-sized thermal insulating technology that blocks heat transfer.
Advantages	• Solvent-free, no fire risk. • Impermeable to water. • Excellent adhesion to concrete, mortar, and steel substrate. • Anti-slip, anti-skid finish. • High mechanical strengths. • High chemical resistance • Thermal resistant.
Properties	
Color	Natural
Solids by Volume	≈100 %
Specific Gravity	2.0 ±0.1
Pot life @ 23 °C	45 Min (reduced at a higher temperature)
Fully Cured	7 Days
Compressive strength (7 days)	40 - 60 N/mm ²
Flexural strength	20 -21 N/mm ²
Impact	2.5 N.m
Tensile Strength	6 - 8 N/mm ²
Thermal Conductivity	0.039 W/m °C
Initial cure	24 hours at 23 °C

Surface Preparation	New poured concrete - Concrete compressive strength >25 N/mm² & Bond strength > 1.5 N/mm² (28 days) - Moisture content < 4% - Allow to fully cure 28 days prior to application. - Remove any curing membrane by sanding or etching with a strong detergent. Old concrete - Thoroughly clean 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 repaired and smoothed first by using Kemrepair EP and a bonding layer using Kembond EP. steel surface - The steel surface should be blasted to Sa 2½ surface quality to remove rust and mill scale. Never bridge an expansion, contraction, or construction joint.
	Mixing - Stir the contents of part A with an electrical stirrer to disperse any settlement. - Add part B to part A and mix for 2 - 3 minutes with a low-speed drill. - Add the mix (A+B) completely to the filler (C). - Mechanical mixing is recommended until a homogeneous and uniformly moist mix is obtained.
Priming	- Prime the prepared concrete substrate using Sealer E45 (surface sealer) as a sealer coat at coverage rate 0.2 – 0.25 Kg/m² - Mix components A and B together using a paint stirrer, pallet knife or similar until it is streak free - Using a paint brush or medium pile paint roller, apply the mixed primer to the prepared substrate - If the concrete absorbs the primer, leaving the surface matt instead of glossy, the surface should be re-primed - For green concrete or wet concrete (moisture (content >4% use Wetseal at a coverage rate of 0.2 - 0.25 Kg/m² - Ensure the mixing equipment is working and that a backup mixer is available in case of a breakdown - When using electrically powered mixing equipment verify the security of the power supply
Application	- Application temperature +10/+30 °C - Moisture content <4% - Before the bonding layer cures apply the mortar screed. Kemfloor MS should be spread to uniform thickness on the primed surface by the edge of a steel trowel. - The material should be stamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel.
Theoretical coverage	1st step Primer Sealer E45 for dry concrete and (Wetseal) for green concrete at coverage rate as primer coat 0.2-0.25 Kg/m² depending on substrate porosity. 2nd step Mortar screed Kemcrete MS EP Thermody (A+B+C) 8 Kg/m² 4 mm thick.
Packaging	35 Kg Sacks 3 Parts (A+B+C)

Shelf life & Storage	12 months if kept in original packing in a dry condition
Precaution	• Expansion joints in the existing substrate should be continued through Kemfloor MS/ EP Thermody and filled to the required level with a suitable sealant. • In constantly wet areas or where a high degree of cleanliness is required Kemfloor MS/EP Thermody may be coated with Kemfloor • To terminate at perimeters, up stands, columns and skirting extend the Kemfloor MS/EP Thermody to form a cove. • Minimum surface temperature 10 °C. • Maximum surface temperature 30°C. • Surface moisture contents < 4%.
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 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 the proper handling of our products.