

Kemtile PUE

Two-Components, Solvent Free, Polyurethane Epoxy Adhesive Mortar EN 12004 (Type R. Class T2)

Description	Kemtile PUE is a two-component solvent-free polyurethane epoxy mortar consisting of resin, selected hardener & oven-dried graded filler, specially formulated for fixing & pointing applications where high strength, good adhesion & high chemical resistance are required
Where to use	• Vertical and horizontal tile fixing and grouting • Food processing, and soft drinks factories • Petrochemical industries • Waste water tunnels and tanks • Metal industries
Advantages	• Good chemical resistance • Easy to apply, fast & accurate application • Durable & long-lasting • Waterproof • Excellent adhesion to steel and concrete • Resistant to mold and fungus
Properties	It Complies with EN 12004, ANSI A118.3
Specific gravity	1.76 ±0.10
Pot life @ 23 °C	40 minutes – 1 hour (reduced at higher temperatures)
Touch dry	24 hours @ 23 °C
Final cure	7 days
Adhesion strength	≥ 2 N/mm ²
How to use	For Newly poured concrete: • 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 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 repaired and smoothed For metal surfaces: • Sandblast to the white metal surface
Mixing	• Base and hardener should be mixed until a uniform color and consistency are achieved

Application	• For non-porous substrates the use of Sealer E43 – Primer Epoxy is recommended to promote adhesion, using a consumption of 0.15 Kg/m² • Before the key coat sets the mixed adhesive should be spread evenly on the surface using a serrated trowel or comb • Tiles should be placed within the working time of the adhesive regarding the temperature • Leave joints between tiles (3-5 mm) wide, to be filled with Kemtile PUE • The surface and weather temperature should be 10 - 30 °C The material is not to be exposed to traffic, chemicals, and water before it is fully cured 7 days
Theoretical coverage	1.8 kg/m ² for 1 mm thickness
Packaging	5,10,20 Kg
Shelf life & Storage	Kemtile PUE has a shelf life of 12 months at least when stored in normal dry conditions
Cleaning	Tools and application equipment should be cleaned with a special solvent immediately after use
Health and Safety	• Care should be taken to avoid inhalation of dust and to prevent material from entering the eyes • Use goggles-gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from the skin with a hand cleanser or soap and water • Eye splashes are to be washed with plenty of water
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