

# Kemtile C1

Cement Base Ceramic Floor & Wall Tile Adhesive (Type C Class T1, E)

<b>Description</b>	<b>Kemtile C1</b> is a mix of cement-based tile adhesive that can be used as a thin-bed normally at thickness up to 3 mm <b>Kemtile C1</b> is particularly useful for floor tile fixing in areas which have to support normal pedestrian traffic within a few hours after laying
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• <b>Kemtile C1</b> may be used to fix ceramic floor tiles direct to concrete, cement /sand screed, existing unglazed ceramic floor tiles, clay floor quarries, and terrazzo</li> <li>• For fixing ceramic wall tiles as it may be used to fix directly to brickwork, concrete, and cement/sand rendering</li> <li>• For water retaining structures as swimming pools, water tanks .... etc.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Premixed, ready to use directly from the package</li> <li>• High adhesive bond strength &amp; weather and waterproof</li> <li>• Used to fix the tiles on most substrates even non-porous ones</li> <li>• Suitable for dry, wet areas and high or low-temperature weather</li> <li>• Resistant to mould &amp; fungus</li> </ul>
<b>Properties</b>	It Complies with EN 12004, ANSI A118.4
<b>Appearance</b>	Dry Powder
<b>Color</b>	White, Grey
<b>Specific gravity</b>	1.87 ±0.13
<b>Pot life @ 23 °C</b>	60 Min
<b>Adhesion strength</b>	>0.5 N/mm <sup>2</sup> (28 days)
<b>Compressive Strength</b>	15 N/mm <sup>2</sup>
<b>How to use</b>	<ul style="list-style-type: none"> <li>• New concrete and brickwork should be allowed to mature for at least 4 weeks before fixing commences</li> <li>• If screed or render is applied the background should be at least 4 weeks old before a separate 1:3 or 4 cement/ sand mortar is applied</li> <li>• The screed or render must then be left at least another 2 weeks before tile fixing is commenced</li> <li>• Existing ceramic floor tile, clay floor quarry, and terrazzo surfaces should be checked to ensure that there are no loose or hollow-sounding areas</li> <li>• Any defective sections must be made good before laying new tiles on top</li> </ul>
<b>Mixing</b>	<ul style="list-style-type: none"> <li>• Mix <b>Kemtile C1</b> with 3.5 – 4 liters of clean water to a thick creamy consistency</li> <li>• After mixing with water the adhesive is ready for use</li> <li>• No further water should be added after the original mixing</li> <li>• A mix is usable for at least 60 minutes when mixed at 23 °C after which period any portion unused should be discarded</li> </ul>

Application	<ul style="list-style-type: none"> <li>• Apply a key coat of material mixed with water (1:1) by weight</li> <li>• Direct fixing to concrete, cement/sand screed, existing ceramic tiles clay floor quarries, and terrazzo</li> <li>• Tiles must not be soaked. They are fixed dry, and <b>Kemtile C1</b> may be applied directly to the floor as a thin layer</li> <li>• After spreading the adhesive on the working time will vary according to atmospheric conditions but is approximately 60 minutes</li> <li>• Therefore, it is important not to spread more adhesive at a time than can be covered with tiles within this period</li> <li>• Each tile must be pressed firmly into position and no voids must be left behind to achieve this additional layer of adhesive may be applied to the backs of the dry tiles immediately before they are laid</li> <li>• Alternatively, the adhesive may be combed with a special solid-bed trowel which provides a series of fine ribs onto which tiles may be laid</li> <li>• The whole back of each tile must be covered with adhesive, while spacing of at least 3 mm should be left around each tile</li> <li>• Ceramic tiles must never be fixed with tight joints and must be evenly laid so that there is no protruding or raised edges</li> <li>• <b>Kemtile C1</b> can be used at thicknesses from 3 mm up to 6 mm, and for small isolated uneven areas of limited extend it may be used up to 12 mm</li> <li>• Before the adhesive sets, clean off any surplus remaining on the face of the tiles and between the tile joints in reading for grouting. Floor tiles laid in <b>Kemtile C1</b> in normal atmospheric conditions may be subjected to foot traffic 24 hours after fixing, i.e., when the adhesive has hardened sufficiently</li> </ul> <p><b>Notched-trowel method:</b></p> <ul style="list-style-type: none"> <li>• For interior, dry conditions <b>Kemtile C1</b> may be used to fix tiles by the notched-trowel method. Apply to the wall at a thickness of about 3 mm then go over it with a trowel having notches 6 mm x 6 mm at 25 mm centers</li> <li>• This will give a series of ribs onto which the dry tiles should be pressed firmly home with a twisting or sliding action</li> <li>• Tiles must be fixed in position before surface drying of the adhesive occurs. Therefore, it is important not to spread more adhesive at a time than can be covered with tiles within this period i.e., work in small areas of approximately 1 sq.m at a time</li> </ul>
Theoretical coverage	2 Kg of <b>Kemtile C1</b> / sq.m / 1mm thick
Packaging	25 Kg sacks
Shelf life & Storage	<b>Kemtile C1</b> has a shelf life of 6 months at least when stored in normal dry conditions
Cleaning	Tools and application equipment should be cleaned with water immediately after use
Health and Safety	<ul style="list-style-type: none"> <li>• Avoid inhalation of dust and to prevent material from entering the eyes</li> <li>• Use goggles-gloves and a breathing mask when applying</li> <li>• Apply forced ventilation in confined spaces</li> <li>• Remove splashes from the skin with a hand cleanser or soap and water</li> <li>• Eye splashes are to be washed with plenty of water</li> </ul>
Additional Information	<p><b>PROKEM</b> 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</p> <p><b>PROKEM</b> designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction</p> <p><b>PROKEM</b> reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale &amp; delivery</p> <p>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</p> <p><b>PROKEM</b> extends technical services to include after-sales support to assist users in the proper handling of our products</p>