



CLADTEC Instructions

1. Technical Description: CladTec is a heavy duty, polymer enhanced, fiber reinforced adhesive designed for fixing cladding units, stone veneer, thin cut natural stone, brick slips, porcelain and tiles to both internal and external walls. The prepared mixture gives a highly flexible, non-sagging, shrinkage compensated adhesive which creates extreme adhesion, and surpasses the stringent performance requirements set out in BS EN 12004 C2TE S1.

2. PPE REQUIRED: Dust mask, Safety Goggles & Gloves.

3. TOOLS REQUIRED: Sturdy mixing tub, measuring jug, drill and whisk or paddle blender, a rubber mallet, 10mm notched trowel or one of an appropriate size for the correct coverage required for the units being fixed, please refer to the technical specification set out by the manufacturer of the units being fixed.

4. Surface Preparation /Limitations: All receiving surfaces/substrates must be structurally sound ,and must have achieved their fully cured strength, and be capable of supporting the calculated weights of the units and adhesive being used. The surface must be free from dust, dirt, debris,oil,grease,worn or flaking renders or coatings of any kind that may affect adhesion. Ensure all preexisting construction expansion joints are continued through the cladding units and are NOT bridged over. CladTec adheres to most types of common masonry materials such as concrete, concrete blockwork and strong cementitious renders, surfaces must be pre-accessed to ensure they can safely accept and support the expected/calculated shear load bearing weights of the cladding and adhesive weight combined.

CladTec adhesive is not suitable for fixing any type of tiles/units to, painted surfaces, plasterboard, gypsum plaster, hardwall plaster, plywood, chipboard, fibreboard, lightweight blockwork or any other surface likely to fail, please refer to BS 5385-1:2018 in relation to suitable substrates.

BS 8298: 2020 covers the code of practice for the design and installation of natural stone cladding.

Porous concrete or blockwork should be pre sealed with a suitable primer, prior to commencement.

Always consult and adhere to local building code requirements, prior to commencement. Mechanical fixing of units may be a requirement where units are to be fixed at a height exceeding 3.0 m from ground level, please consult local codes of practice/local building regulations in relation to this prior to commencement.

Never commence work when the temperature is 5 degrees or lower or on a falling thermometer, or frost is forecast within 24hrs of completion, freshly completed external work should be protected with weatherproof sheeting if rain is forecast within the 24hr setting up period.

5. MIXING: A full 20kg bag of CladTec requires the addition of 4L of clean water. Add 4L of clean water to a sturdy mixing tub followed by a full 20kg bag of CladTec, mix at slow speed with your drill and whisk or paddle blender for 2 minutes ,leave stand for 3 minutes and mix for a further 2 minutes ,this ensures full dispersion of the polymer powder. Mix until you achieve a lump free, creamy consistency.

6. APPLICATION: The adhesive is applied/spread to the prepared surface with a flat edged trowel, and combed through with a notched trowel of the appropriate size, to give a ribbed mortar bed, the ridges on your substrate should be vertical in orientation.

Spread only enough adhesive that can be covered within 20 minutes. The cladding units /tiles should also be back buttered and notched up in the same manner, press the prepared units solidly into the prepared substrate, in a twisting motion, ensuring full contact, with no voids. Units should be tapped with a rubber mallet to achieve your final required embedment level.

It is good practice to periodically remove a recently placed unit, to ensure you are getting a full contact bed with your fixing method, as void less ,full contact bedding is critical for the longevity of the system, especially on external substrates where freeze/thaw action will occur.

Any excess adhesive that gets on the face of your units should be cleaned off as you go with a sponge and clean water.

7. GROUTING: If grouting is required, it is essential that the adhesive has set up appropriately, and cannot be dis lodged during the grouting process, this would be a minimum of 12hrs in warm weather and over 24hrs in cold weather, the setting up time of CladTec is completely dependent on temperature, warm weather accelerates, cold weather retards.

8. COVERAGE: Coverage will be completely dependent on the size and weight of panels used, the texture of both the receiving substrate, as well as the units being fixed, and the size of notched trowel used. A full mix will cover between 2 and 4 meters squared of units,

subject to the thickness of the adhesive bed being applied. Thinner lighter units require a thinner adhesive bed than thicker heavier panels. If you are unsure of the appropriate bed thickness, consult the code of practice set out by the manufacturer of the specific units being fixed or BS 5385-2018 which is the code of practice for internal and external tiling with cladding, tiles, brick slips, natural stone and veneer units of 12mm or less in thickness, or BS 8298:2020 which covers the code of practice for thicker stone cladding units.

9. SETTING/WORKING TIME: CladTec will except units up to 30 minutes after its been spread on the substrate ,as per the criteria set out in BS 12004 for a C2TE-S1 adhesive (temperature dependent) however we recommended to spread only enough adhesive that can be comfortably covered within 20 minutes, you will have a further 10 minutes for any adjustment of units that may need to be made.Initial set time is 4hrs and CladTec will achieve its full set time after 24hrs, but these times are subject to ambient temperature and the temperature of both the receiving substrate and the units used.

10. CLEANING: All tools used should be thoroughly washed off with fresh water after use.

11. STORAGE: This product should be stored in dry ,cool conditions, on the ground away from extremes of high or low temperature. The shower proof bags the product comes in will tolerate light showers only, but are not intended for prolonged unprotected outdoor storage.

12. Chromium VI: This product must be used within 7 months of the DOM. Use of the product after this date or incorrect storage may increase the risk of an allergic reaction and/or skin irritation from the activity of the reducing agent Chromium VI.

13. UFI: UKQ1-00HA-300R-M4KK