



Addition Sheet

Protec System

Decorative Tiles Bonded with Mapei Keralastic PU Adhesive

**Please note that this is an outline specification only and may be subject to further site investigation
by Polyroof Products Ltd Technical Department.**

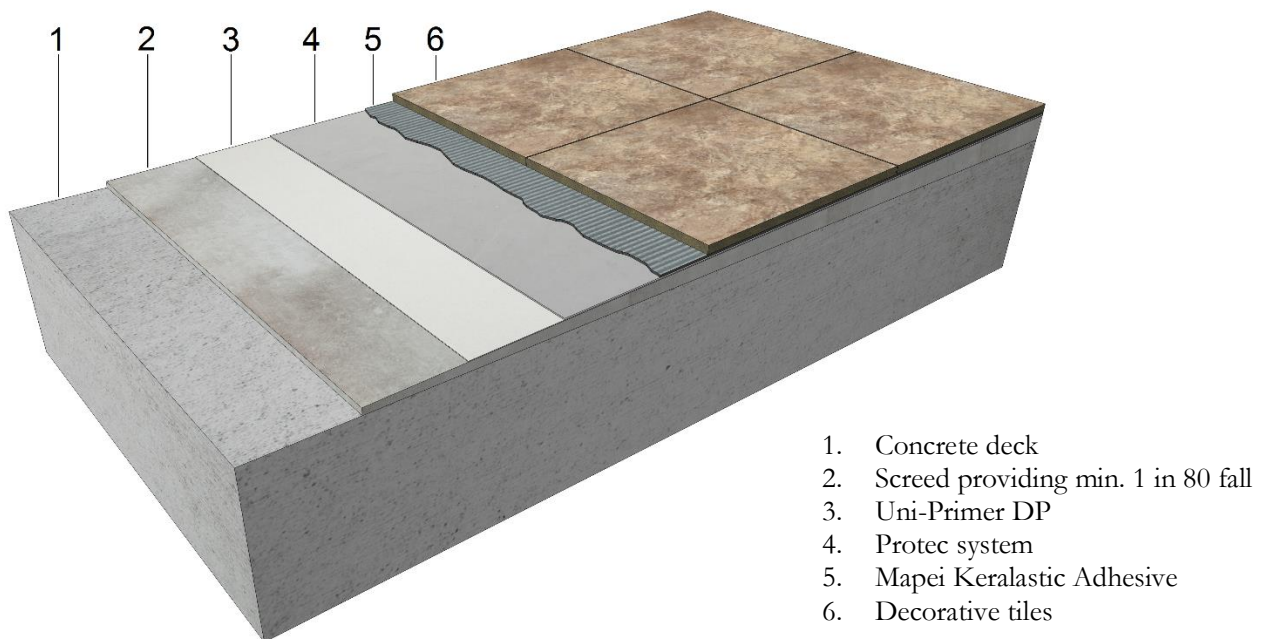
1. Decorative Tiles Bonded with Mapei Keralastic PU Adhesive

1.1. Introduction

This document outlines Polyroof's recommendation for bonding decorative tiles to the Protec membrane with Mapei Keralastic Adhesive (see Section 1.4. for further details) and should be read in conjunction with a Protec system outline specification and relevant CAD details.

1.2. Overview

In general it is not advised that products are bonded directly to Polyroof liquid applied waterproofing systems since this makes any future inspections of the membrane difficult. Bonding of decorative tiles directly to the membrane should always be done with caution. Decorative tiles should only ever be directly bonded to the membrane using Mapei Keralastic Adhesive which has been tested and approved for use by Polyroof Technical Services.



1.3. Important Notes

- Prior to the installation of the decorative tiles the contractor should ensure that Polyroof Products Limited Technical Services are contacted and given the opportunity to inspect the membrane before it is covered.
- It may be prudent for the client to arrange for water integrity tests to be carried out prior to installing the decorative tiles.
- Please consult a WITA (Water Integrity Test Association) member for further guidance if required.
- Please note that should an inspection of the Protec system ever be required in the future it would be the client's responsibility to remove the decorative tiles and adhesive back to the membrane.

1.4. Mapei Keralastic Adhesive

For more information please contact Mapei UK Ltd (www.mapei.co.uk)



MAPEI

Keralastic
and
Keralastic T

Two-component,
high-performance,
polyurethane adhesives
for ceramic tiles and
stone material

CE
EN 12004

R2

R2T

CLASSIFICATION IN COMPLIANCE WITH EN 12004

Keralastic is an improved (2) reaction resin adhesive (R) as class R2.

Keralastic T is an improved (2) reaction resin adhesive (R) and slip resistant (T) as class R2T.

Conformity of Keralastic + Keralastic T is declared in ITT certificates n° 25040320/Gi (TUM) and n° 2504047 1/Gi (TUM) respectively, issued by the Technische Universität München laboratory (Germany).

WHERE TO USE

Indoor and outdoor, wall and floor bonding of ceramic tiles, stone material and mosaics of all types on:

- screeds, renders, concrete, asphalt, wood, metal, PVC, reinforced polyester, asbestos-cement, gypsum, gypsum board, gypsum panels, etc.

Some application examples

- Bonding ceramic tiles, stone material and all types of mosaics in showers and on sheets used for prefabricated bathrooms.
- Bonding ceramic tiles and mosaics on wooden work surfaces or kitchens in order to achieve a waterproof substrate.
- Bonding ceramic tiles, stone material and mosaics on balconies, external terraces, flat roofs subject to foot traffic or domes.
- Bonding natural stones and reconstructed stone (marble of every type, slate, etc.) also subject to movement and size variation due to the absorption of water (class C of size stability according to MAPEI standards).

- Bonding ceramic tiles and stone material on surfaces subject to vibrations and deflections.

TECHNICAL CHARACTERISTICS

Keralastic and **Keralastic T** are two-component solvent and water free adhesives which are flexible and waterproof. They are made up of a polyurethane base (component A) and a special hardener (component B). On mixing the two components together, the result is a paste with the following properties:

- easy workability;
- excellent durability and resistant to ageing;
- perfect adhesion on all surfaces used in building;
- hardens by chemical reaction without shrinkage (until it becomes highly resistant);
- high deformability;
- in the case of **Keralastic T**, highly thixotropic: it can be applied vertically without slump and without letting even heavy or large tiles slip. The slipping strength is in compliance with EN 1308.

RECOMMENDATIONS

- Do not use on very damp surfaces or where there is a risk of rising damp.
- The packs are pre-measured, therefore mixing errors are impossible. Do not use partial quantities. A wrong mixing ratio could cause damage during the curing process.
- Use the products in temperatures between +10°C and +30°C.
- In case of use on surfaces subject to continuous immersion in water, consult the MAPEI technical services department beforehand.
- Do not use **Keralastic/Keralastic T** to bond transparent glass materials.

