



# KLE150

## Tile Adhesive - Single Pack Adhesive

### ■ Description

KLE150 is quartz based tile adhesive that has excellent results for high resistance laying of ceramic tile on floor, walls on cement based substrates. It is workable upto 10 mm thickness and the formulation ensures optimum performance for tile setter. It is absolutely reliable and has its base in superiority of its conception.

### ■ Application

Designed for ceramic floors, wall and interior application. Single pack adhesive.

### ■ Advantages

- One pack adhesive, just add water.
- Frost free.
- Water resistant.
- Long open time.
- Proven Performance.

### ■ Substrates

- Concrete.
- Cement Terrazzo.
- Brick Masonry.
- Old Ceramic Floors.
- Cements Plaster.

### ■ Surface Preparation

All Surfaces should be clean and free from oil, grease and all dirt. Dry dusty concrete slabs or masonry Should be dampened and excess Water swept off. BE ensure for that the base is sufficiently flat to permit the specified flatness of finished tiling. bearing in mind the permissible minimum and maximum thickness of the bedding material.

### ■ Mixing

Add KLE150 adhesive to clean water and mix it until a homogeneous lump - free mixture which obtain. Recommended water to adhesive is 28% to 30%. Avoid less or excess water. Advisable to use slow speed blander. To increase adhesion And flexibility and "SBR" admixture to impart flexibility - enhance adhesion and durability and reduce water permeability.

### ■ Caution

Do not add lime or cement to the product. Wear a respirator in dusty areas. Avoid breathing dust. Keep out of reach of children. Avoid contact with eyes and skin, In case of contact wash with plenty of water. During cold weather or in a high humidity, protect finished work form traffic until fully cured.

## ■ Application

Spread the mix on to the substrates, Using the smooth part of the trowel to create a layer of about 3-6 mm thickness. Immediately afterwards comb using the notched part of the trowel. The trowel notched size of the trowel must be chosen according to the size of the tiles. In any case it must assure 65 to 70% coverage of the back of the tiles for interior installation and 100% for exterior installation or floors subject to intense traffic. In exterior installation of floors subjects to high stress it its advisable to apply the adhesive additionally to the back of tile. (Back buttering method) Give a slight twisting action.

- Do not attempt to extend the pot life by adding water.
- Allow the paste to be mature for 5 - 10 minutes after mixing.
- Saturate the surface will and remove excess water before application.

## ■ Laying the Tiles

Place the tiles on the spread adhesive and press firmly to assure good contact. The product's open time in normal condition of temperature and humidity is 20 minutes. however this may be reduced to just a few minutes in very hot or windy weather. Tiles must be laid with grout joints of adequate width for their size. Butt joining (tiles touching) is no recommend. Take account of movement or control joints during installation. Leave space at least 5 mm next to walls or vertical elements. The tile surface must be protected for at least 24 hours form water and for about 5-7 days form frost and direct sun light.

## ■ Grouting

- Joint between tiles can be grouted after 08 hrs in the case of wall tiles or 24hrs, in the case of floor tiles.
- Grouting can be carried out using KLEFILL grouts and KLEPOXY GROUT (two parts).
- Do not set tile when surface temperature is bellow 05°C or when substrate is frozen.
- Cold Wether Note : The setting of Portland cement adhesive and grouts are retarded by low temperatures. Protect finished work for and extended period when installing in cold weather.
- Hot Weather Note : The evaporation of moisture in Portland cement adhesives and grouts is accelerated by hot - dry conditions. Apply to dampened surfaces and protect freshly spread adhesives and finished work when installing in temperature over 35°C.
- KLEFILL and KLEPOXY GROUT require routine cleaning with a neutral PH soap and water. Minimum after 28 days of installation.

## ■ Cleaning

Clean tools and tile work with water while adhesive is fresh.

## ■ Packaging

20 kg bags.

## ■ Colour

Grey & White

## ■ Coverage

65 sq. ft. per 20 kg bag.

In 6mm x 6mm square notch trowel.

## ■ Technical Properties

Test	Test Method	Result
Tensile Adhesive Strength 14 Day Dry	Is 15477: 2004 0.750 KN Minimum	01.240 KN
Tensile Adhesive Strength 7 Day +7 Day Wet	IS 15477 : 2004 0.450 KN Minimum	00.800 KN
Shear Adhesive Strength 14 Day Dry.	IS 15477 : 2004 08:00 KN Minimum	09.90 KN
Shear Adhesive Strength 7 Day + 7 Day Wet	Is 15477 : 2004 04:00 KN Minimum	06.90 KN
Shear Adhesive Strength 7 Day + 7 Day Heat	Is 15477: 2004 04:00 KN Minimum	05.50 KN
Compressive strength	IS 4456(1):1967	34.00 KN 13.60 N/mm <sup>2</sup>
Water Mixing ratio.	KLEBEND Lab Method	28% to 30%
Pot Life.	KLEBEND Lab Method	≥ 5 Hrs.
Density Wt / Vol. (Gm/Cm <sup>3</sup> )	KLEBEND Lab Method	01.70
Open Time	Is 15477:2004	≥ 20 minutes.
Adjustability	Is 15477:2004	≥ 35 minutes.

- Specifications are subjected to change without notice.
- Results shown are typical but reflect test procedure used.
- Actual field performance will be depend upon installation methods and site/substrates conditions.

## ■ Storage & Shelf Life

Factory sealed packed bags are of **1 year** if stored off the ground in a dry area. High humidity will reduce the shelf life of bagged products.

**DISCLAIMER** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.



Epoxy | Adhesive | Water Proofing

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