

# ENEBOND 489

Epoxy tile adhesive and grout for Ceramic tiles

## DESCRIPTION

**ENEBOND 489** is a 3-component, solvent free, anti-bacterial, thixotropic epoxy tile adhesive & grout, used for permanently fixing various types of tiles, marble, or natural stone in areas subject to high abrasion, mechanical, chemical, or permanent immersion. **ENEBOND 489** provides high compressive, tensile & bond strength as well as being completely waterproof and is compatible with a wide range of substrates including concrete, masonry, steel, plywood & existing tiles.

## USAGES

- Laying virtually all types of tiles to cement-based and metallic substrates
- Chemical processing plants
- Dairy industries, kitchens, food plants
- Hospitals, drug factories, and laboratories
- Swimming pools and aquariums

## TECHNICAL DATA

ENEBOND 489	Typical values
Pot Life	4 hours
Initial Cure @30°C	1 day
Full Cure @30°C	7 days
Adhesion to concrete and tiles	Excellent

## STANDARDS

**ENEBOND 489** complies with

- ANSI A 118.3
- BS EN 12004:2010 as R2T
- ASTM C881-78 Type 1, Grade 3, Class B & C

## ADVANTAGES

- Fast return to service and reinstatement
- Excellent mechanical and physical properties
- High bond strength
- High chemical resistance
- Water cleanable
- Anti-bacterial

## USAGE INSTRUCTIONS

### 1. Surface preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Metal surfaces shall be free from rust & scale and other contaminants. Absorbent surfaces shall be saturated thoroughly.

### 2. Priming

Priming is not required unless the surface is highly absorbent, then it is recommended to use **PIOPRIME 38**.

### 3. Mixing

Stir component A only separately, then the entire content of component B could be poured into the base container, both should be mixed for 1-2 min at least using mechanical mixer (drill mixer).

Empty the mixed resin into a suitable empty container with a sufficient volume to accommodate the total yield of the material.

Add gradually the entire filler (Component C) to the mixed resin using a slow speed drill and paddle of forced action mixer for an additional 2-3 min until a uniform color & consistency is achieved.

ENEBOND 489	Coverage
ENEBOND 489	4 – 6 m <sup>2</sup> /2mm/12 kg

### 4. Application

Apply a thin layer of the mixed **ENEBOND 489** onto both elements to be fixed using a putty knife or spatula, and firmly press together to compact the adhesive.

Maneuver the elements to their final position within 10 minutes of application and remove excess material before it dries.

Skinned or dried **ENEBOND 489** must be removed and fresh material to be applied again to ensure a good bond.

### 5. Curing

Allow **ENEBOND 489** to cure fully for 4-7 days before exposing to full mechanical, chemical or environmental conditions.

### 6. Cleaning

Clean all tools and application equipment with a suitable thinner immediately after use. Hardener or cured material can be only removed mechanically or by hand tools.

## PACKAGING

**ENEBOND 489** is supplied in 12 kg set, component A, B & C.

## HEALTH & SAFETY

Before applying **ENEBOND 489** all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **ENEBOND 489** is splashed to skin, it must be removed, before it hardens, with resin removing cream follow by water and soap at once, and if to the eyes seek medical attention immediately.

## STORAGE & SHELF LIFE

**ENEBOND 489** shall be stored in its sealed container under dry and shaded place in a temperature from 10°C - 35 °C, shelf life of the material is 12-months.

### TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:  
concretedoctor@arkaz.com

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