



# Vetoset EA454

Water cleanable, chemical resistant waterproof epoxy tile adhesive.

## Uses

- Laying virtually all types of tiles to cementitious and metal substrates.
- Chemical processing plants.
- Industrial Kitchens, food plants and hospitals.
- Swimming pools and aquariums.

## Product Description

Vetoset EA454 is a three component epoxy based, water cleanable, chemical resistant and waterproofing tile adhesive to be used with most types of tiles including ceramic, porcelain, glass mosaic, marble, granite,...etc. The product is composed of 3 components consisting of resin base, hardener and selected fillers.

## Advantages

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

## Standards Compliance

- ANSI 118.3 , ANSI 108.6 part 1,2,3 and 4.
- BS EN 12004:2010 as R2T
- ISO13007: 2010 as R2T

## Design Considerations

- Do not apply at temperature below 12°C.
- For heavy traffic areas, it is good practice to back butter the tile back surfaces with the adhesive to ensure 100% coverage.

## Technical Data

Vetoset EA454	Typical Values @ 25°C
Appearance	Colored Viscous Paste
Application Thickness	2 to 6 mm
Pot Life	45 minutes
VOC	< 25 gm/Liter
EN12004 Classification	R2T
Compressive strength @ 7 days	≥ 33.4 MPa
Compressive strength @ 28 days	≥ 42.6 MPa
Flexural strength @ 7 days	≥ 13.6 MPa
Flexural strength @ 28 days	≥ 16.3 MPa
Tensile strength	≥ 2.33 MPa
Initial adhesion strength	≥ 5 MPa
Initial setting time	7 hrs.
Full cure	7 days
Mixed Density	1.7-1.9 Kg / Liter
Minimum application temperature	12°C
Shear adhesion strength after water immersion DIN EN12003	> 7.21 MPa

## Usage Instructions

### Surface Preparation

Substrate should be sound, clean, free from loose material, grease, laitance, dirt, curing compound, or any other substance that might impair the quality of bond with the substrate.

### Mixing

To ensure proper mixing, a mechanically powered mixer or heavy duty slow speed drill fitted with a suitable paddle should be used.

Stir the base and the hardener individually to disperse any settlement. The entire contents of the base and hardener should be poured into a suitable size container and mixed mechanically for 2 minutes. Add the filler and mix for another 3 minutes, until a uniform color is achieved.

### Application

Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel. Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm. Place the tiles with firm pressure to ensure proper contact with the adhesive.

It is always better to work in a manageable area that can be tiled within the open time of the adhesive. Leave the tiled surfaces for 24 hours before grouting.

### Cleaning

Tools and equipment can be cleaned with water immediately after use. Hardened materials will require removal by mechanical means.

### Packaging & Coverage

Product	Pack Size	Theoretical Yield
Vetoset EA454	8 Kg kit	4.5 Liters

### Shelf Life & Storage

Original sealed container of Vetoset EA454 has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°C.

## Health & Safety

Vetoset EA454 should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, suitable respiratory protective equipment must be used.

The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - Do not induce vomiting.

Vetoset EA454 is non-flammable.

### Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product groups:

- Concrete Repair, Grouts and Enhancement.
- Wall & Facade Systems.
- Flooring and Coating Systems.
- Sealants and Joints.
- Plasters & Renders.
- Putties & Finishes.
- Tiling Systems
- Waterproofing.
- Primers & Ancillary Products.
- Specialty Products.

Saveto also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals, product selectors and technical support both in contractors and consultants offices as well as construction sites.

For further information on these products and systems kindly check our website or contact your local Saveto representative.

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