

Vetoset EA454

Water-proof epoxy tile adhesive (Water-cleanable & chemical-resistant)



Uses

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

Product Description

Vetoset EA454 is a three-component (a resin base, hardener, and selected fillers), epoxy-based, and waterproofing tile adhesive that's water-cleanable & resistant to chemicals. The product is ideal for laying most types of tile (including ceramic, porcelain, glass mosaic, marble, granite, etc.).

Advantages

- Easy to apply.
- Excellent mechanical and physical properties.
- High bond strength.
- High chemical resistance.
- Water-washable.

Standards Compliance

- ANSI A118.3
- ANSI A108.6
- BS EN 12004 as R2T
- SASO ISO13007 as R2T

Technical Data

| Vetoset EA454 | Typical Values @ 25°C |
|--|-----------------------|
| Appearance | Beige Paste |
| Mixed Density (kg/liter) | 1.7 - 1.8 |
| Application Thickness (mm) | 2 - 6 |
| Pot Life (Minutes) | 100 |
| Adjustability (Minutes) | 20 |
| VOC (gm/liter) | < 25 |
| Compressive Strength @ 7 days (MPa) | ≥ 33.4 |
| Flexural Strength @ 7 days (MPa) | ≥ 13.6 |
| Tensile Strength (MPa) | ≥ 6.9 |
| Initial Adhesion Strength (MPa) | ≥ 5 |
| Initial Setting Time (Hours) | 7 |
| Full Cure Time (Days) | 7 |
| Minimum Application Temperature (°C) | 5 |
| Shear Adhesion Strength after Water Immersion (SASO ISO 13007) (MPa) | > 3 |

Design Considerations

- Do not apply at a temperature below 5°C.
- For large-sized tiles, it is recommended to back-butter the back surfaces of the tiles with an adhesive to ensure 100% coverage.

Usage Instructions

Surface Preparation

The substrate should be sound, clean, and free from loose material, grease, laitance, dirt, curing-compounds (or any other substance that might impair bond quality with the substrate).

Mixing

To ensure proper mixing, use a mechanically powered mixer or heavy-duty slow speed drill fitted with a suitable paddle. Stir the base (component A) and the hardener (component B) individually to disperse any settling material. Pour the entire contents of the base and the hardener into a suitable sized container and mix (mechanically) for 2 minutes. Add the Filler (component C) and mix for 3 more minutes until a uniform and lump-free consistency is achieved.

Application

Apply a thin layer of the adhesive onto the substrate using the flat edge of a trowel. Comb the adhesive with a suitable notched trowel to achieve a bed thickness of 2 - 6 mm. Then place the tiles and press them firmly to ensure proper contact with the adhesive. (It is always better to work in a manageable area that can be tiled within the adhesive's open time). Leave tiled surfaces for 24 hours before grouting.

Contact Saveto's technical department for more information regarding the suitable substrates & tile types on which this product can be safely applied.

Cleaning

Clean tools and equipment with water immediately after use. Remove hardened material mechanically.

Packaging & Coverage

| Product | Pack Size | Coverage |
|---------------|----------------------------|---|
| Vetoset EA454 | 8 kg kit (3 components) | 4.6 m ² /kit (@1 mm thickness) |

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, method of application, and wastages.

Shelf Life & Storage

The original sealed bag and container of Vetoset EA454 have a shelf life of 12 months, provided they're stored clear off the ground, in a dry and shaded place, and at a temperature below 35°C.

Health & Safety

Vetoset EA454 should not come into contact with your skin or eyes or be swallowed. Some people are sensitive to resins, gardeners, 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 provides additional skin protection.

In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvents. In case of contact with your eyes, rinse immediately with plenty of clean water, and seek medical attention. If swallowed, seek medical attention immediately - Do NOT induce vomiting. Vetoset EA454 is non-flammable. For more information, refer to the material safety data sheet.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

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

Legal Disclaimer

Saveto endeavors to ensure that any advice, recommendations, information it may give is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products because it has no direct or continuous control over where or how its products are applied, whether or not following any advice, specification, recommendation, or information given by us. Saveto has the right to change any of the technical datasheets specifications upon its discretion without prior notification.

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