



Vetocrete HS801

High Strength shotcrete for 3D Panel Systems

Uses

- Ideal for polystyrene sandwiching and paneling.
- It is ideal for large vertical and overhead structural repairs.
- It is used for supporting columns and beams.
- It is ideal for new construction projects.

Product Description

Vetocrete HS801 is a single component polymer modified fibered cementitious high strength Shotcrete for plastering/ rendering applied manually, by plastering machine and by shotcrete machine, ready to use, and only requires the addition of water on site. Once mixed, the product becomes a pumpable, sprayable mortar designed specifically for reinforced EPS paneling systems to replace the traditional masonry and/or concrete constructions. Vetocrete HS801 is composed of a blend of hydraulic cement, carefully selected and graded aggregates, fibers, and special additives to give it its unique properties.

Advantages

- Easy to use, a single component product.
- High physical and mechanical properties.
- Extremely low permeability where it provides reinforcement protection against corrosion and resistance to ingress of contaminants.
- Multidirectional reinforcement, ensuring a high cohesion and decreasing potential cracking due to environmental reasons.
- Non-Shrink properties ensure dimensional repair stability.
- Suitable for internal and external applications.
- Thixotropic properties allow a high build-up in vertical and overhead repairs.
- Very low sag.

Technical Data

Vetocrete HS801	Typical Values
Drying Shrinkage ASTM C157	< 0.05 % @28 days
Water Penetration DIN 1048	< 3 mm
Fresh Mixed Density	1.95 ± 0.1 Kg/Lit
Compressive Strength BSEN 1015-11	@ 1 day ≥ 8 MPa @ 7 days ≥ 14 MPa @ 28 days > 25 MPa
Flexural strength BSEN 1015-11	> 5 MPa @ 28 days.
Tensile Strength ASTM C307	> 2.0 MPa @ 28 days
Bond Strength to Concrete BSEN1015-12	≥ 0.8 MPa
VOC Content ASTM D2369	<10 gm / Liter (LEED Compliant)

Standards Compliance

- BSEN 998-1 : CS IV
- ASTM C926
- ACI 506.2

Usage Instructions

Surface Preparation

Surface should be sound and clean. It should be strong enough to receive the material. When using the EPS panels, the reinforcement should be fixed tightly with suitable distance for the panel to carry the high build Vetocrete HS801. For new construction, prepare a steel reinforcement and pump the material until reaching the desired thickness. Use a suitable high to medium pressure pneumatic pump.

Priming

Generally, no priming is needed. Only at the panel steel connections and columns, use the Vetoprime CP436 to enhance the adhesion and to protect the steel. For new construction, clean the substrate and steel reinforcement from dirt, rust, or anti-adhering materials.

Mixing

To ensure proper mixing, use a mechanically powered mixer or a drill fitted with a suitable paddle. Add 8.5-11.5 liters of clean water to a clean container. Then slowly add the powder to the water while mixing continuously with a low-speed mixer/ drill (400-600 rpm). Continue mixing until obtaining a uniform consistency. For large quantities, use a large mechanical drum mixer. Add water to fill 2/3 of the mixer capacity. While mixing, add the powder and follow it by gradually adding the rest of the water until reaching the desired consistency. When using the Plastering Machine, adjust the mixing water flow-meter in between 480 - 600 lit/Hr. keep the machine always full to ensure the right W/P ratio.

Placing and Finishing

Apply Vetocrete HS801 manually and by plastering spray/shotcrete machine. to ensure good adhesion with the steel reinforcements and the substrate. Initially, level the surface by using an aluminum rod or steel trowel. Finish the applied material surface within one hour, as the material sets faster than regular plasters and renders.

Legal Disclaimer

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Hard copies of TDSs are printed once or twice a year. Our technical data sheets are continuously updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Curing

Vetocrete HS801 is a cementitious based material; therefore, cure it similarly to concrete by continuous watering and covering the surface with polyethylene sheets if possible.

Cleaning

Clean all tools immediately after application by using freshwater. Clean hardened materials mechanically.

Limitations

Apply Vetocrete HS801 in a single application for sections up to 20mm thick in overhead applications.

Packaging & Coverage

Product	Pack Size	Yield
Vetocrete HS801	50kg Bag	≈ 31 Liters / bag

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

Shelf Life & Storage

The original sealed bag of Vetocrete HS801 has a shelf life of 12 months, provided it is stored clear of the ground, in a dry and shaded temperature-controlled place, at temperatures between 5-35 °C.

Health & Safety

Vetocrete HS801 contains reins, which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapor. Wear suitable protective clothing, gloves, and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent. In case of contact with the eye, rinse immediately with plenty of clean water, and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting. - Vetocrete HS801 is non-flammable.

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.