

terratherm-manto

External thermal insulation systems

■ Description

External thermal insulation systems.

■ Advantages

- Tested in accordance with ETAG 004.
- Provides savings of heating and cooling costs.
- Protects the building against all external factors and extends service life.
- Balances humidity in the building, creates comfortable living spaces.
- Does not require facade wall repair for long years.

■ Range of application

- Used for external thermal insulation of all buildings such as detached houses, housing estate, etc.

■ Application substrates

- On facade;
 - Brick,
 - Gas concrete,
 - Concrete,
 - Cement based render,
 - Wooden panel,
- Please consult us for all other application substrates.

■ Coating options for application

- **Weber** ready colored renders and coatings can be applied on substrates as the final layer to which **terratherm-manto** has been applied.

■ Performance

- **terratherm-manto** external thermal insulation systems was tested in accordance with EOTA (European Organization for Technical Approvals) ETAG 004*.

■ Conditions of application

- Ambient temperature is between +5 °C and +30 °C.
- Avoid application in very damp and/or hot weather, under sunlight.
- It should not be used on substrates which are frozen or melting or have the risk of frost or rain within 24 hours.

■ Preparation of substrate

- The substrate should be clean, dry, smooth and sound.
- The substrate should be free from settled living beings such as insect, rodent, etc. and their houses absolutely.
- Necessary actions should be taken for water isolation in underground, subbasement or sections being exposed to the water.

- It should be aligned by applying string vertically and horizontally to the surface of building or façade.

■ Number of dubbels

- The main purpose of using dubbels is to prevent impacts of wind and turbulence. The number of dubbeling in applications is generally accepted as 6 dowels/m². However, height of building and environment conditions determine the number of dubbels and dubbel lay-out depending on it.
- Please consult us for "number of dowel and lay-out plan" required to be applied underspecific conditions before the application of **weber.therm 310**.

■ Final layer coating

- Textured, ready colored renders should be preferred on exterior thermal insulation systems in general. The function of final layer coating other than decorative purpose is to protect exterior wall and insulation system against exterior weather conditions. The particle structure of the coating is of vital importance. Due to architectural concerns, if paint is an obligation, 1-2 more layers of render should be applied on normal application.
- Deeply dark colors should not be preferred for color selection for final layer coatings. Since dark colors will absorb sun lights more cracks may occur with thermal tension due to excessive warming of the substrate.

■ Attention points

- Existing building components such as glass, wooden, aluminum and other existing components should be protected by covering in cases of modifications especially.
- Intallments and renders must have dried in substrates to be insulated.
- Humidity and moisture should be prevented in the buildings.
- Gutters should be built before insulation application as to be at least 5 cm. outside of system final layer of which has been applied.
- The length of dock clamps should conform to system thickness for dock uses.
- It should be noticed that there will be no water leaking from holes broed for dock clamps (e.g., boring holes curved).
- For the purpose of improving workmanship quality and extend the service life of thermal insulation system, it is recommended to use **terratherm-manto** profiles at risky zones such as dilatation joints, door- window frames and lintels.

■ Limits of application

- Not applicable on damp and wet substrates.
- Not applicable on loose and low-resistant substrates.
- When choosing color for final layer coating, highly dark colors should not be preferred.

*Please see the brochure of **terratherm-manto** external wall thermal insulation systems for application of **terratherm-manto**.

FOR INFO

> The stated times apply for 20 °C substrate and ambient temperature and increase at lower temperatures and decrease at high temperatures.

> **Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.** is not responsible for the application errors arising from use of product beyond its intended purpose or failure to comply with the foregoing application conditions and advice on the product.



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