TECHNICAL DATA SHEET

TREMtilt

Insulated EPS Forming System for Tilt-Up Construction

PRODUCT DESCRIPTION

TREMtilt™ is an insulated concrete forming system for tilt-up construction, built from expanded polystyrene panels with optional steel attachment rails for one-sided tilt walls. The result is a casting bed that is lighter, faster, and more energy efficient than conventional site-cast tilt-up formwork. The system suits warehouses, offices, retail, schools, healthcare facilities, data centers, and a wide range of other building types. Panels can remain in place as the insulation layer of a finished wall with a nominal R-30 value, or be adapted and reused to cast conventional, non-insulated concrete walls — one system, three ways to build.

TREMtilt comes in three custom engineered options:

- Insulated Panels - One-sided EPS with optional steel attachment rails
- Sandwich Panels - two wythes (layers) of concrete, separated by a layer of EPS insulation, tied together with a series of connectors or fasteners.
- Un-Insulated Panels - EPS form reused to cast a traditional concrete wall

BASIC USES

TREMtilt is an Insulated EPS Forming System for Tilt-Up Construction.

TREMtilt is utilized in various commercial, industrial, and residential construction applications. The technology uses non-conductive connectors to sandwich EPS insulation between two layers of concrete which eliminate thermal bridging.

Common Building Types:

- Warehouse & Distribution Facilities
- Office Buildings
- Commercial & Retail Development
- Public Assembly & Civic Structures
- Healthcare Facilities
- Data Centers

FEATURES & BENEFITS

- Engineered EPS surface bonds to concrete during casting
- Stack casting option: less bed space & less crane time
- Reduced panel weight widens your crane options without departing from standard tilt-up design and erection practices
- Panels accommodate custom block outs and openings with quick turnaround
- Integrated R-30 insulation
- Full-scale flexural test report (University of Nebraska-Lincoln, 2026) is available from Tremco CPG

COMPLIANCE & PERFORMANCE

Based on ASTM E84 testing provided by the EPS bead suppler, the EPS achieved a flame-spread index of 25 or less and a smoke-developed index of 450 or less.

For additional information or technical support, contact Nudura customer service.

HANDLING & STORAGE

- Store on a level, well-drained surface, up off the ground on continuous dunnage or bunks. Space supports to prevent sag across long panels and keep the foam out of standing water, mud, and ponding.
- Stack flat and squarely, aligned rib-to-rib, with the stack height limited so lower panels aren't crushed. Don't stack other materials, tools, or rebar on top.
- Cover with an opaque, light-colored tarp rather than clear poly. Clear film traps solar heat against the foam. Leave the cover loose enough at the sides to vent moisture.
- Prolonged UV exposure yellows and chalks the EPS surface and can weaken the bond face. Keep panels covered whenever they're staged more than a few days.
- Keep EPS away from petroleum products, solvents, cutback asphalt, solvent-based adhesives, and coatings - these dissolve polystyrene on contact. Verify compatibility of any adhesive, sealant, or coating with Tremco CPG Technical Services.
- Use water-based bondbreakers compatible with EPS. Do not use solvent-based or petroleum-based bondbreakers in contact with EPS.er
- Do not expose to sustained temperatures above 165°F.

WARRANTY

Tremco warrants TREMtilt to be free of defects in materials. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed, or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to the TREMtilt product.

Visit https://www.tremcosealants.com/warranties/ for details.

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