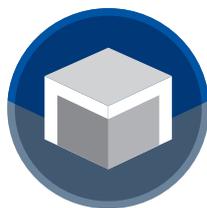


////// TERRACO®



**MODULAR CONSTRUCTION
SOLUTIONS**

The House of Scandinavian Finishing Materials



INTRODUCTION

Modular building systems are one of the fastest growing construction sectors in many parts of the world. Terraco specialises in this sector and offers finishing materials specific for modular construction.

Terraco is a key partner of modular construction companies as from the outset, we provide constant technical support and collaboration on product customisation. Terraco helps clients to achieve goals of reducing fabrication manhours and set up flexible design solutions. We deliver and ensure superior quality finishing solutions in the factory, site and at the project site.

Our technical service teams work closely with modular clients to provide bespoke finish adaptation and design solutions-based products. Terraco is a One-Stop-Shop for all interior and exterior finishing material requirements of the modular construction industry.

Product System Customisation

Terraco provides product system solutions for modules or prefabricated units under factory controlled conditions. These finishing solutions for interior and exterior surfaces include:

Flexible Jointing Solutions

Flexible Tiling Systems

Quick Set, Flexible Waterproofing / Air Tightness Solutions

Skimming and Coating of Panels

Cladding Finishes

Modular Certified and Tested Exterior Insulation Finishing Systems (EIFS) / Exterior Thermal Insulation Composite Systems (ETICS) / External Wall Insulation (EWI) Systems

Direct Applied Exterior Finishing Systems (DEFS)

Production Customisation

Terraco facilitates a customisation process to optimise the product system with each specific modular plant. This enables the modular construction company to maximise its production capacity and achieve a guaranteed quality. Our technical team will focus on:

Analysis to deskill, improve the automation of product application

Enhancing quality control and speed per m2 via spray applied systems

Reducing application and/or drying time by using quick-set products

Customising product for factory environment - for forced drying, oven drying systems etc.

Enhancing product flexibility for transporting the modular units - lightweight steel frame sections or timber framing to site

Coordinating research and development with automation systems

Being a sustainable solutions provider

MODULAR CONSTRUCTION TECHNICAL FINISHING SOLUTIONS

Interior Solutions

- » Eco-Friendly Wall, Ceiling, Floor Surface Treatments
- » Bathrooms, Kitchens

Exterior Solutions

Eco-friendly External Walls / Exterior Finishing Solutions

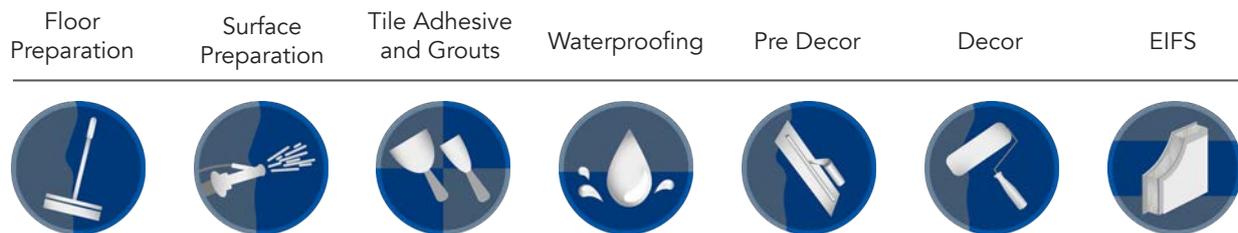
- » Exterior Insulation Finishing Systems (EIFS) / External Thermal Insulation Composite Systems (ETICS) / Exterior Wall Insulation Systems (EWI)
- » Direct Applied Exterior Finishing Systems (DEFS)

Jointing Solutions

- » Bespoke Detailed Solutions

Pre cast / Structural Insulated Panels (SIP) / Sheathing Board Surface Treatments

- » Flexible Board Joint Treatments
- » Flexible Wall Panel Coatings
- » Wall Waterproofing Treatments



INTERIOR SOLUTIONS

Terraco provides sustainable interior technical finishing solutions for modular units, fabricated and assembled under factory-controlled conditions. These products are customised to maximise production capacity and improve quality control, with the use of automated spray applications.

Many of these products are part of our EcoLife range that has ultra-low Volatile Organic Compounds (VOCs). Terraco's operations are also designed to be lean and efficient. Our local sourcing policy, limits freight requirements consequently lowering carbon footprint and following a cradle to grave methodology. Terraco evaluates the natural effects linked to all phases in the product life - from purchasing raw materials, manufacturing, distribution, testing, usage all the way up-to selling.

Wall, Ceiling & Floor Surface Treatments

- » Flexible Joint Treatments for Boards
- » Board Surface Treatments for Tightness/Systems
- » Speciality Primers
- » Decorative Finishes
- » Floor Joint Treatments Screeds & Finishes

Bathrooms & Kitchens

- » Tile Adhesives & Grouts
- » Tanking Systems for Bathroom / Shower Area



Wall and Ceiling Board Flexible Joint Treatments

JOINT SEALANTS

- / Easy to apply
- / Excellent flexibility
- / High durability

JOINT COMPOUNDS

- / Easy to apply
- / Filling properties to board recess depth
- / Semi flexible
- / Quick-setting option (cement based)
- / Low shrinkage

READY MIX JOINT / ACRYLIC SKIM COATS

- / Easy levelling
- / Easy sanding for smooth finish
- / Paintable without primer
- / High coverage rates
- / Easy workability

BENEFITS TO MODULAR MANUFACTURERS

- » Customised as per performance requirements and as per automation or assembly line.
- » System compatibility
- » Reduced installation Line
- » No water usage
- » Enhanced flexibility for transport
- » Low VOCs
- » Low wastage





Wall and Ceiling Board Surface Treatments

SPRAYPLASTER AIRLESS ACRYLIC FINISH COATS

- / Customised to be compatible with board type and mesh
- / Enhanced flexibility
- / Crack resistant
- / One coat application
- / High spread rate

SPECIALITY PUTTIES

- / Specific for wet areas
- / Customisation of putty ranges with lightweight feature
- / Certified and tested tapes, meshes, beading
- / Enhanced flexibility for high stress areas
- / Easy levelling
- / Easy sanding for smooth finish (paint ready)
- / No primer required before painting

BENEFITS TO MODULAR MANUFACTURERS

- » Low skill level required for high quality finish
- » Reduced installation time
- » Enhanced flexibility for transport
- » Low VOC
- » Health & environment friendly
- » Low wastage
- » No water usage



Specialty Primers for Various Substrates

SPECIALITY PRIMERS

- / Formulated according to requirements
- / Proven adhesion in various substrates – steel, PVC, aluminium, timber, gypsum.
- / Multi-purpose primers
- / Enhanced bond strength
- / Quick drying

Decorative Finishes for Interior Walls

DECORATIVE INTERIOR TEXTURE COATS

- / Customised low profile textured aesthetic finishes (trowel or sprayed)
- / Wide range of concrete effect wall finishes
- / Wide range of designer polished plasters
- / Minimal wastage
- / Easy application
- / Cost effective installation

BENEFITS TO MODULAR MANUFACTURERS

- » Customised colours
- » Variety of finishing effects
- » Health & environment friendly
- » Low VOC
- » Low skill required for high quality finish
- » Reduced installation time
- » Enhanced flexibility for transport





Floor Treatments and Finishes

CUSTOMISED SELF-LEVELLING FLOORING COMPOUNDS

- / Non-shrink screeds and grouts
- / Quick drying
- / Excellent adhesion
- / Enhanced compressive strength & flexibility

AESTHETIC FLOOR FINISHES

- / Wide selection of concrete effect floor finishes
- / Wide selection of epoxy and acrylic floor finishes
- / Excellent adhesion
- / Enhanced comprehensive strength & flexibility

BENEFITS TO MODULAR MANUFACTURERS

- » Reduced installation time
- » Customised as per performance requirements
- » Low VOC
- » Sustainable products



Tile Adhesive & Grouts for Walls and Floors

TILE ADHESIVES

- / Quick drying & setting
- / Non-slump
- / High flexibility
- / Compliant with EN12004

TILE GROUTING

- / Good flexibility
- / Quick drying & setting
- / Anti-fungal
- / Stain repellent
- / Easy to clean
- / Multiple colour options
- / Compliant with EN138888

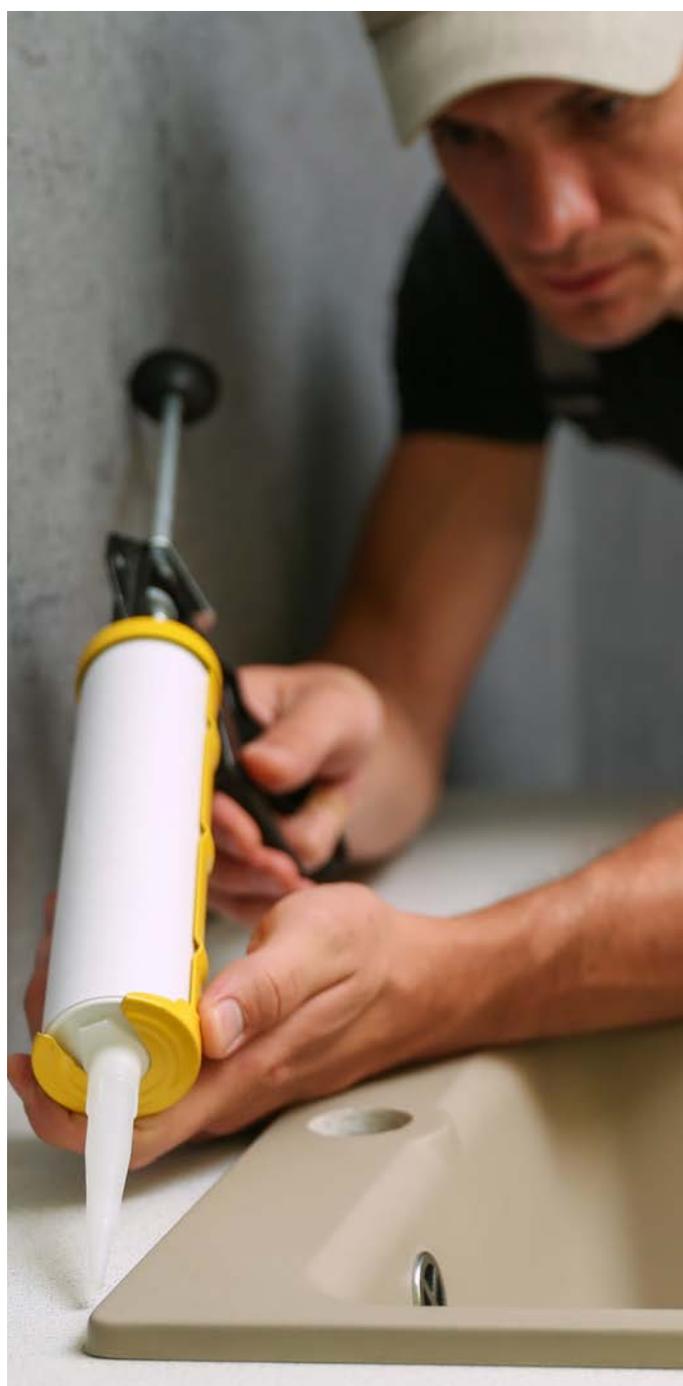
Tanking Systems for Wet Areas

WATERPROOFING / TANKING

- / Compatible
- / Quick drying
- / Good flexibility
- / Systemised installation
- / Specialist tapes/bands

BENEFITS TO MODULAR MANUFACTURERS

- » Reduced installation time
- » Reduced application time
- » Increased efficiency
- » Enhanced adhesion / flexibility
- » Minimal wastage
- » Customised to performance requirements



EXTERIOR SOLUTIONS

Terraco provides comprehensive system and product solutions for the exterior technical finishing of modular units. These products are customised as per the clients' aesthetic and energy efficiency requirements and the same designed for ease of application and superior quality finishes.

External Walls / Exterior Finish Speciality Solutions

- » Exterior Insulation Finishing Systems (EIFS) / External Thermal Insulation Composite Systems (ETICS) / Exterior Wall Insulation Systems (EWI)
- » Direct-applied Exterior Finish Systems (DEFS)
- » Speciality Polymer Modified Basecoats/Mortars
- » Exterior Acrylic / Mineral Texture Coatings
- » Silicone Textures and Paints
- » Real Brick Slip Finish Systems

Pre-cast / Structural Insulated Panels (SIP) / Sheathing Board Surface Treatments

- » Joint Treatments (Bespoke Flexible Reinforced Solutions)
- » Wall Panel Coating Range
- » Wall Weather Resistive Barriers (WRB's)



Surface Treatments for Pre-Cast, Structural Insulated Panels and Light Steel Frames

FLEXIBLE BOARD JOINT TREATMENTS

- / System compatibility tested boards & tapes, part of Terraco systems
- / Required filling properties & board recess depth
- / Customised to assembly-line
- / Quick-setting option (cement based)
- / Low shrinkage
- / Crack resistance / flexible

WALL PANEL COATINGS

- / Customised thin coat and high build basecoats
- / Customised low and high profile textured aesthetic finishes
- / Customised Elastomeric and silicone paints
- / Customised skimming & levelling compounds & paints

ACRYLIC & CEMENTITIOUS WALL WATERPROOFING TREATMENTS

- / Customised liquid applied air-tightness systems
- / Excellent elasticity

BENEFITS TO MODULAR MANUFACTURERS

- » Reduced application time
- » Does not require high-skilled installers
- » Customised to production process
- » Can be used on a variety of substrates





EIFS / ETICS & DEFS Systems Finishing Solutions

Proven performance, guarantee backed, internationally certified EIFS / EWI / ETICS. Provides great energy savings and superior thermal efficiency of buildings.

ELASTOMERIC TEXTURES & PAINTS

- / Long-life with enhanced flexibility
- / Long-life durability over extreme temperatures (°20-C to °50+C)
- / Customised textured aesthetic finish range (trowel and sprayed)
- / Extensive range of colours
- / Enhanced impact resistance

REAL BRICK SLIP FINISH SYSTEMS

- / Real brick appearance (15mm)
- / BBA Certified Brick Slip Systems
- / Customisation of brick slip and pointing mortars
- / Natural brick colour range

BENEFITS TO MODULAR MANUFACTURERS

- » Internationally certified systems for EIFS / ETICS / DEFS
- » Wide range of finishing options
- » Low skill level required for high quality finish
- » High performance systems



EIFS / ETICS & DEFS Systems Finishing Solutions

SPECIALITY POLYMER MODIFIED MORTARS

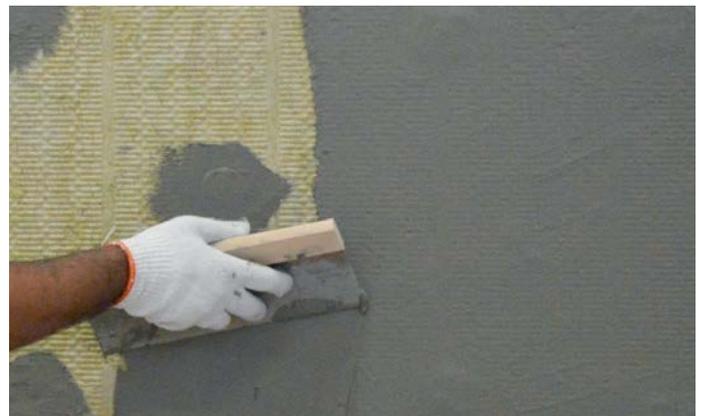
- / Polymer modified adhesive and mortars
 - / Enhanced impact resistance
 - / Fibre modified & customised
-

EXTERIOR ACRYLIC / MINERAL TEXTURE COATINGS

- / Long-life coatings
 - / Good flexibility
 - / Customised low-profile textured aesthetic finishes (trowel and sprayed)
 - / Customised acrylic stone effect finishes (trowel and sprayed)
 - / Polymer modified mineral dry dash receiver and stone range
 - / Concrete effect wall finish range
 - / Special effects range: Wood effect finish / Metallic effect finish
 - / Excellent dirt pick-up resistance
 - / Extensive colour range
-

SILICONE TEXTURES & PAINTS

- / Long-life & low maintenance
- / Enhanced dirt pick up resistance and water repellence
- / Enhanced coating breathability for older buildings
- / Extensive colour range



MODULAR TECHNICAL FINISHING SOLUTIONS

Cooperation

Customer satisfaction is of paramount importance to Terraco. Not only is the product customisation process managed by regionally based technical teams, but modular clients are also given direct contact to our group's Global Technical Centre. The Terraco Technical Centre was established in Ireland in 1995 and is at the forefront of our technical customisation advancements.



Technical Customisation | Research and Development Opportunities

The Terraco Technical Centre, located in Ireland, will work closely with the local technical team in your country to provide technical guidance on product customisation.

The technical customisation process is an ongoing process whereby Terraco modifies products to specific production facilities as the local Terraco technical team gains greater understanding of the customer's production processes.

The target is to use quick-set / quick drying spray applied systems (where applicable) to ensure Terraco's customisation objectives of optimizing production efficiency, reducing production costs, ensuring quick delivery to site and enabling easy assembly.

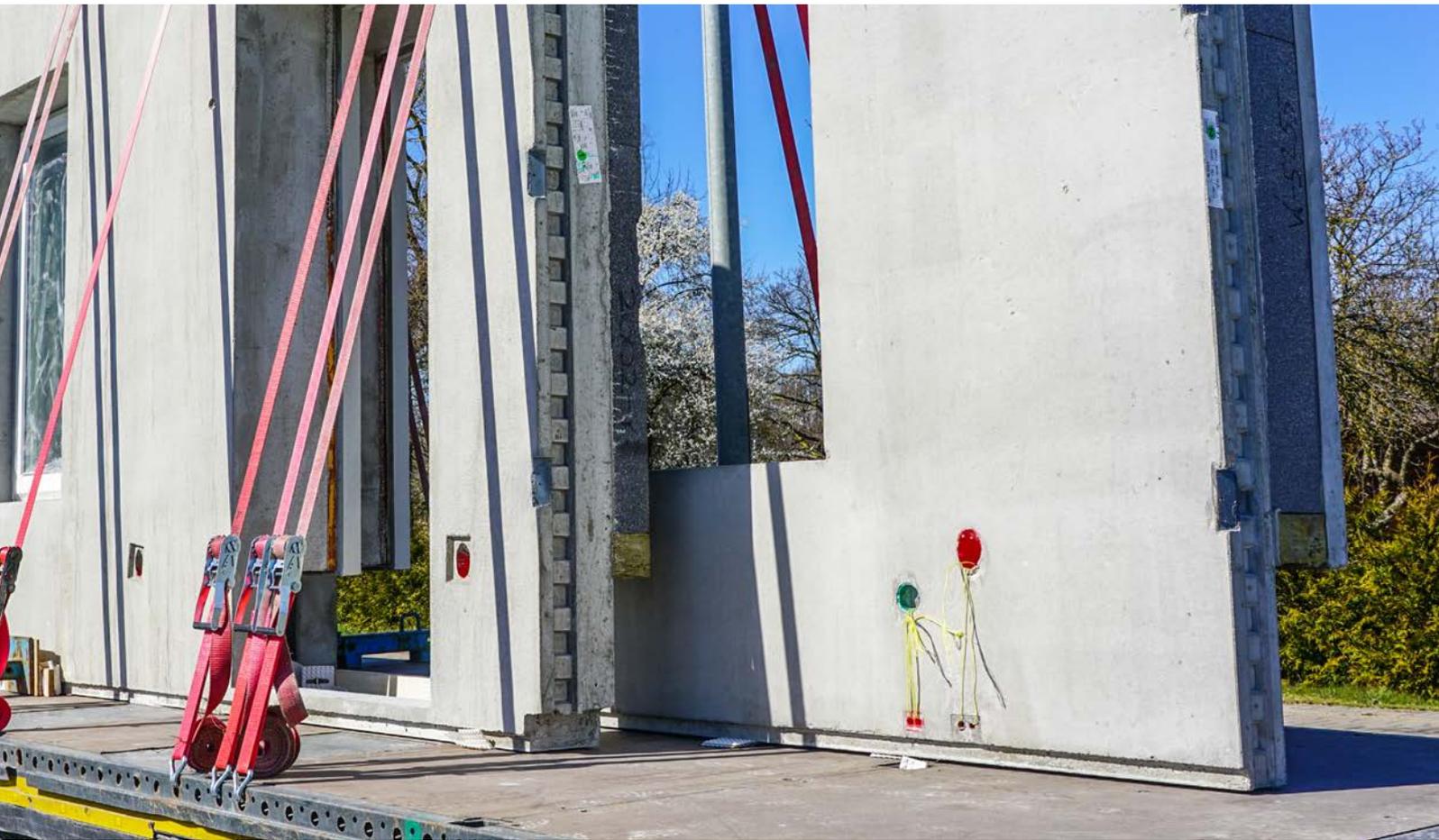
Thanks to this customisation process, modular companies benefit from Terraco as an ideal supply partner, enabling them to achieve their goals of time saving, flexibility and quality. This ultimately helps them achieve an increased revenue.

Terraco actively engages with its modular customers to provide bespoke finish adaptations and design solution-based products for the modular construction industry.

Certification and Testing

In off-site / Modular construction, the certification and testing requirements may not be as well defined as for traditional construction. As part of the technical customisation process, the local Terraco technical department will research the requirements for local product testing & system certification.

If these local / national testing requirements are not clearly defined, Terraco's Group Technical Centre in Ireland will provide assistance and information relating to international test reports / certificates / systems / standards relevant for the region.



Terraco, Your Trusted Technical Solution Provider for Modular Construction

ENHANCING UTILITY

Modular manufacturers look for product versatility. Terraco products give the manufacturers multiple options to utilise its functionality suitable for specific and varying requirements.

ENGINEERED DURABILITY ADVANTAGE

Terraco works closely with modular manufacturers to design products with the right balance of flexibility and durability. Terraco products reinforce precast units to withstand transport movements and vibrations.

SPEEDING UP PRODUCTION

Modular manufacturers automate production lines that streamline processes and boost output speed. Terraco products enable manufacturers to cut production labour-hours with its easy and quick application features.

KEY PARTNERSHIPS

Terraco has been actively working on multiple key projects across the globe. Terraco is a trusted name in providing tailored solutions for the prefab and modular industry for high quality, environmentally friendly, easy to apply finishing materials.



www.terraco.com

SWEDEN • UK • IRELAND • RUSSIA • TURKEY • ALGERIA • EGYPT
SOUTH AFRICA • JORDAN • UAE • THAILAND • VIETNAM • CHINA • KOREA

Technical Data Sheets and Material Safety Data Sheets are available from your Terraco representative or on www.terraco.com. Although every precaution has been taken to ensure the accuracy of the colours and textures represented herein they should be considered indicative. Products containing natural aggregates may be susceptible to colour variation and we recommend that you order sufficient quantity for the complete project at one time. Terraco does not warrant the accuracy of the information provided herein and all information is subject to change without notice.

© All rights reserved. Terraco Holdings Ltd.