



COMPANY PROFILE

THERMILATE

MIDDLE EAST TRADING LLC

www.thermilate.ae

Welcome To Thermilate Middle East

A regional leader in advanced coating technologies. We protect buildings, improve energy efficiency, and extend asset life with innovative solutions tailored for the Middle East's unique challenges.



More than products, we build lasting partnerships through quality, expertise, and dedicated service. Thank you for considering us as your trusted partner in protection and performance.

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About Company

Here innovation meets protection through sustainable coating solutions

Thermilate Middle East is a trusted leader in protective and energy-efficient coatings, specializing in manufacturing, supplying and applying liquid-based waterproofing, heat-reflective, fire retardant, rust arrestors, and fire protection systems. Our innovative, durable solutions meet the demanding needs of industrial, commercial, and infrastructure projects across the region, designed for long-term performance and environmental responsibility. With expert technical support and precise application, we deliver complete solutions that extend asset life, improve energy efficiency, and enhance safety—providing lasting value and peace of mind.

Vision

To be the region's preferred partner for innovative coating solutions that protect assets, enhance sustainability, and ensure safety.

Mission

- ◆ To provide superior quality coating systems through continuous innovation.
- ◆ To support clients with expert application services and technical guidance.
- ◆ To contribute to safer, more energy-efficient, and longer-lasting buildings and infrastructure.



Message From The MD



At Thermilate Middle East, we are committed in delivering reliable, high-performance coating solutions tailored to the region's unique challenges.

Our mission is to protect and enhance buildings through innovation, sustainability, and customer-driven service.

With a skilled team, in-house manufacturing, and trusted partnerships, we continue to push boundaries and build a safer, more resilient future.

Charles Haslam

Managing Director

Meet The Team

Ajit Urath
General Manager

" I take immense pride in leading a team dedicated to deliver top-tier waterproofing and fire stop solutions that meet the highest industry standards. Our commitment to innovation, quality, and client satisfaction drives every project we undertake. "



A Gangaprasad
Business Manager
RCC Roof Waterproofing.



Vysak Ravindran
Marketing Manager
Metal Roof Waterproofing.



Anand Raju
Sales Manager
Metal Roof Waterproofing



Athul Sudhish
Project Manager

Project Coordination



Roshan Roy
Sales Manager

Fire Stop Installation



Manu G Krishnan
Marketing Executive

Waterproofing & Fire Stop



Vidya M S
Finance Manager

Accounts & Admin.



Grace O Abid
Sales Coordinator

HR & Administration



Roderick O Abid
Assistant Coordinator

Site & Office



Anoop
Site Engineer

RCC Roof Waterproofing.



Karthik Babu
Site Engineer

Metal Roof Waterproofing.



Muhammed Fayiz
Site Engineer

Fire Stop Installation

Our Factory



In-house Team



Our Products



e-coat

A single-component, cold-applied, modified polyurethane acrylic hybrid elastomeric coating with high solar reflective index not only for superior waterproofing but also used as heat reflective coating making it energy efficient and eco-friendly.



Leakguard

A single-component, cold-applied, modified polyurethane acrylic hybrid elastomeric waterproofing membrane having high elongation and precisely protection for both new and existing structures.



Leakguard Standard

A single-component, economical cold-applied, modified polyurethane acrylic hybrid elastomeric waterproofing membrane to deliver long-lasting, seamless protection and to be used as basecoat or topcoat.





Roofcoat

A high-performance acrylic-based roofing compound that forms a seamless, durable and elastic barrier which cures into a flexible, water-proof membrane for ultimate roof protection.



Universal Primer

A high-penetration primer designed to prepare and stabilize surfaces, before applying insulation or waterproofing coatings. Ideal for both new construction and restoration work.



CS 101 - Butyl Tape

Self-adhesive waterproofing tape with a polyester fabric layer and a butyl rubber binder for superior adhesion and flexibility.



CS 102 - Polyester Reinforcement Fabric

A stitch - bonded polyester reinforcement fabric designed for exceptional strength, flexibility, & absorption for long-lasting protection.



T 103 - Butyl Sealant

Non-curing butyl rubber sealant for sealing the joints airtight and watertight with superior adhesion, flexibility, and weather resistance with long service life and less maintenance.



T 104 - Polyurethane Sealant

A high-performance, low modulus single-component polyurethane sealant that cures with moisture in the atmosphere to form a durable, flexible rubber seal for superior joint protection.



Our Services



Metal Roof Waterproofing



Concrete Roof Waterproofing



Heat Reflective Coating



Fire Retardant Coating



Fire Stop Installation



Rust Arrestor Coating



Licences & Registrations



Dubai Civil Defense

Licence Number: MCTNA0000117219-2018

Establishment License Number: 659173

Registration Number: 10852548



FCIA Member

Registered Member

International Contractor Member



ISO 9001:2015 (Quality Management System)

Certificate No: AE 1000546/01/Q



ISO 14001:2015 (Environmental Management System)

Certificate No: AE 1000546/02/E



ISO 45001:2018 (Occupational Health & Safety Management System)

Certificate No: AE 1000546/03/H



Case Studies

Our case studies highlight successful applications of the Thermilate Waterproofing System across various projects. They showcase real-world examples of how our solutions deliver reliable protection, energy efficiency, and long-term performance in challenging environments.

01

Industrial Metal Roof- Metal Roof Waterproofing

Client: Automobile Manufacturer, Dubai

Scope: Supply and Apply of waterproofing system on a 30,000 sq.m. metal roof

Challenge: Old roofing with water leakage problem and for solar installation.

Solution: Applied Thermilate system with e-coat.

Result: Water Leakage problems solved; Solar panels installed and even after heavy rain in 2024, no leakages were reported.



02 Commercial Building- Concrete Roof Waterproofing

Client: Five Star Resort, Dubai.

Scope: Waterproofing concrete roof and expansion joints (10,000 sq.m.)

Challenge: Persistent roof leakage due to aging bitumen membrane and expansion cracks

Solution: Removal of existing damaged system and applying Thermilate liquid-applied elastomeric waterproofing system on full roof.

Result: Leak-free performance through multiple rainy seasons, with zero maintenance calls

03 Country Pavilions- Fire Retardant Coating

Client: Global Village, Dubai.

Scope: Fire retardant coating on all wood and plastic decorations and temporary construction.

Challenge: Compliance with international fire safety standards in a fast-track construction schedule

Solution: Supplied and applied DCD approved fire retardant coatings.

Result: Full compliance with NFPA and Dubai Civil Defense approvals; completed on time with zero safety violations



04

Urban Metal Roof- Heat Reflective Coating

Client: Five Star Hotel, Dubai

Scope: Supply and apply of Heat Reflective Coating on a 4,500 sq.m. metal roof.

Challenge: Existing failed waterproofing at some places need to be removed and waterproofed again

Solution: Applied two coats of e-coat.

Result: Checked the temperature on the roof surface after application and found 72.6°C on uncoated area and 65.5°C on the coated area. (Difference of 7.1°C)



05

Dubai Airport- Fire Stop Installation

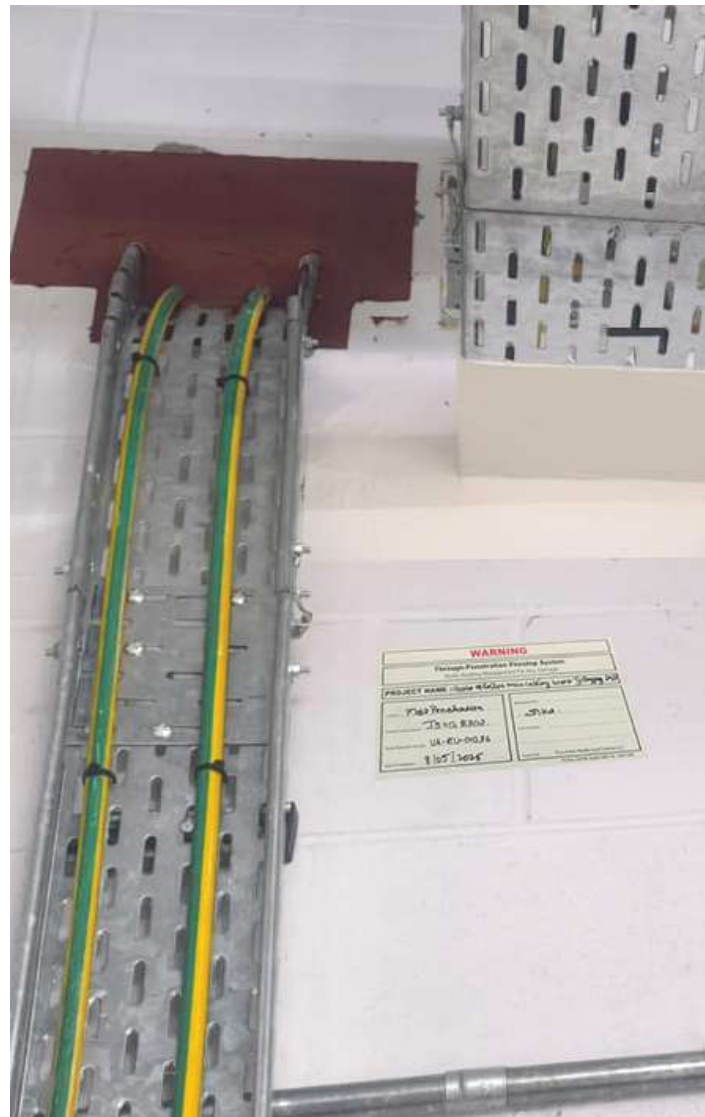
Client: Chain Restaurants, Dubai Airport.

Scope: Supply and apply of DCD approved fire stop intallation on all wall penetrations.

Challenge: Existing MEP penetrations with space constraints.

Solution: Application of DCD approved fire sealant on all wall penetrations

Result: Spreading of fire and smoke from one compartment to another is prevented



06

Cooling Tower- Rust Arrestor Coating

Client: Hospital, Sharjah.

Scope: Application of rust arrestor coating on all pipes, fittings and equipments of cooling tower.

Challenge: Rusted pipes of cooling tower in congested spaces.

Solution: Supplied and applied Rust Bullet (Rust Arrestor Coating).

Result: Rust is completely covered; completed on time with no safety violations.

07

Industrial Metal Roof- Gutter Renovation

Client: Logistics Company, Dubai.

Scope: Gutter Overskinning and apply of Thermilate System with rust arrestor coating wherever required. (1008 m.)

Challenge: Leakages from blocked gutters and rust in some areas.

Solution: Replaced damaged gutters and applied thermilate waterproofing system.

Result: No leakage found in water test and completed on time with no safety violations.



Why Choose Us?

Choosing Thermilate Middle East means partnering with a company that values performance, reliability, and long-term client satisfaction. Here's what sets us apart:

-  **Expertise in Harsh Environments:** Our products are specifically designed for any type of challenging climate.
-  **End-to-End Solutions:** From manufacturing and supply to professional on-site application.
-  **Quality You Can Trust:** Formulated with premium-grade materials and rigorously tested for durability.
-  **Technical Support & Training:** Hands-on guidance, and training to ensure successful implementation
-  **Commitment to Innovation:** Evolved product range with the latest advancements in coating technology.
-  **Proven Track Record:** Successfully delivered solutions in all sectors across the GCC and beyond.



Thermilate System

- A Proven, Certified & Sustainable Solution.!

The Thermilate Waterproofing System is a cutting-edge, multi-layered protective solution engineered to deliver superior performance in the harsh climatic conditions of the GCC region. With over 25 years of proven success, this system is widely recognized for its exceptional elongation, high UV resistance, and solar reflectivity, making it ideal for metal and concrete roofs. It effectively reduces surface temperatures, enhances the building's thermal performance, and remains highly durable yet economical—making it a top choice for long-term waterproofing needs.

Certified to ISO 9001, 14001, and 45001. The product is laboratory-tested worldwide for waterproofing performance and applied by a trained in-house team.

The standard system method includes a well-structured application process:

- ◆ Primer application
- ◆ Butyl tape bonding
- ◆ Butyl sealant applied over lap joints
- ◆ Fabric mesh reinforcement
- ◆ Finished with two protective coats of Leakguard or e-coat

Thermilate prioritizes safety at site, deploying a qualified HSE engineer, first-aid-trained fire safety personnel, and professionals certified in Work-at-Height standards. Every project is protected under a Comprehensive CAR policy, and all operatives use certified PPE and lifelines in compliance with international safety norms.

This integrated system of product quality, trained manpower, certified application, and a safety-first approach makes Thermilate a leading name in the waterproofing industry.



Fire Retardant & Fire Stop Installation

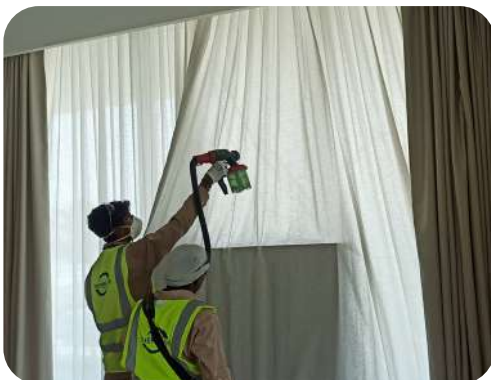


On Wood

Fire-retardant coatings for wood surface to reduce flammability. Ideal for structural timber, furniture, and paneling, these coatings form a protective char layer that helps comply with building fire safety standards.

On Plastic

We offer advanced fire-retardant coatings for plastics that reduce flame spread and smoke generation. Suitable for electrical casings, automotive parts, and decorative plastics, these solutions enhance safety without compromising appearance or durability.



On Fabric

Our fabric fire retardant treatments are designed to safeguard textiles used in commercial, industrial, and residential spaces. They provide a reliable barrier against fire while maintaining the fabric's flexibility, making them ideal for curtains, upholstery, uniforms, and protective gear.

Fire Stop Installation

We provides fire stop installation to protect buildings from the spread of fire, smoke, and toxic gases. Our team installs certified firestop systems for all types of wall and floor penetrations. We use Dubai Civil Defence-approved materials to ensure full compliance with safety standards .



Supporting Services

Sky Light

We offer reliable skylight repair and replacement services, improving natural lighting while ensuring water-tight sealing and enhanced energy efficiency.



Gutter

We provide professional gutter installation and repair services to ensure proper water drainage and prevent structural damage caused by water accumulation on roofs.



Sheet Replacement

Our team specializes in replacing old or rusted metal roofing sheets with durable, corrosion-resistant materials to restore the roof's integrity and extend its lifespan.



Rust Arrestor Coating

We offers specialized rust arrester coating services to protect metal surfaces from corrosion and extend their lifespan. Our high-performance coatings are ideal for industrial roofs, structures, and steel components, ensuring long-lasting durability even in harsh environments.



Global Presence



United Arab Emirates



Oman



Saudi Arabia



United Kingdom



Egypt



India





We appreciate your time and interest in learning more about Thermilate Middle East.

As a trusted partner in advanced coating technologies, we are committed to delivering quality, performance, and value across every project. Whether you're seeking waterproofing, fire protection, energy efficiency, or corrosion control, our team is here to support your goals with innovative solutions and unmatched service.

Thank you for considering Thermilate Middle East.

We look forward to the opportunity to work with you.



Saves Energy, Saves Money.



YEARS OF
EXPERIENCE



SATISFIED
CLIENTS



TRUSTED
DEALERS



SUCCESSFUL
PROJECTS



CERTIFIED
COMPANY

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Technical Data Sheet

Thermilate Products

A single-component, cold-applied, modified polyurethane acrylic hybrid elastomeric waterproofing membrane, delivering long-term, seamless waterproofing and energy saving coating.

KEY FEATURES

Energy Efficiency & Environmental Benefits



- Saves energy by reflecting heat
- Low conductivity coating
- Reduces condensation
- Non toxic & environmental friendly

Flexibility & Structural Performance



- Remains intact on flexible surfaces
- Excellent crack bridging
- High tensile strength and elongation
- Bonds well to a wide range of surfaces

Durability & Weather Resistance



- High weather resistance
- Resistant to atmospheric pollution
- Resistant to UV degradation
- Exceptional film durability

Application & Safety



- Ideal for waterproofing sloped roofs
- Easy to apply and fire safe
- Rapid drying for quick re-coating
- Stable over temperature variations

HOW IT WORKS

E-Coat contains ceramic composite spheres embedded in a diamond matrix, which are vacuum-sealed inside, similar to a miniature thermos flask. These spheres enable E-Coat to refract, reflect, and dissipate heat. On internal walls and ceilings, the coating reduces heat loss, while on external walls and roofs, it reflects heat from the sun, creating a cooler internal environment. This innovative structure not only enhances energy efficiency but also ensures superior waterproofing and long-term durability. E-Coat meets the standards set by Cool Roof Rating Council (CRRC) for solar reflectance and thermal emittance.

APPLICATIONS

- ◆ Concrete roofs (flat or sloped)
- ◆ Serviced and refurbished roofs
- ◆ Protection over PU foam insulation
- ◆ Concrete infrastructure like tunnels and bridge decks

APPLICATION METHOD

- ◆ Prepare a clean, dry, and stable surface
- ◆ Apply with brush, roller, squeegee, or airless spray
- ◆ Use as a single coat or in multiple layers as required
- ◆ Allow curing time per thickness and weather conditions

HEALTH & SAFETY

- ◆ Use protective gloves, goggles, and a respirator if necessary.
- ◆ Work in a well-ventilated area to avoid inhalation of fumes.
- ◆ Keep out of reach of children and avoid ingestion.
- ◆ In case of contact with skin or eyes, rinse immediately with water.

PACKAGING OPTIONS

- ◆ Available in 18 L drum and white in colour.
- ◆ Custom colour on request.

STORAGE & HANDLING

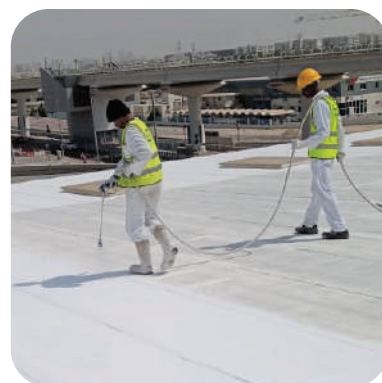
- ◆ Store in cool, dry conditions, away from direct sunlight.
- ◆ Shelf life: 12 months in unopened original packaging



TECHNICAL DATA

Property	Value
Coating Type	Elastomeric paint with ceramic spheres
Solar Reflective Index (ASTM E1980-01)	112
Solar Reflectance (ASTM E1918)	Reflects >85%
Infrared Emissivity (ASTM E408)	92%
Solids by Weight & Volume	53.00% & 61.850%
Toxicity	None
Viscosity	115+5 KU
Compressive Strength (ASTM 1424-99)	98% survival @ 7000psi
Tensile Strength (ASTM D412)	1.56 N/mm ²
Elongation at Break (20°C, ASTM D412-16)	586% @ 25°C
Water Absorption (ASTM D471)	12% after 4 weeks
High Humid Resistance (ASTM D3273)	No growth or discoloration
Fungus Resistance (ASTM G21)	No growth or discoloration
Impact Resistance	Good
Chemical Resistance (ASTM D1308-02)	Exceptionally resists harsh chemicals and corrosives like acids, fuels,waste, grease, urine, alcohol, and oils.
Low Temperature Flexibility (ASTM D711)	Pass
Volatile Organic Compound (VOC)	<250g/L
Resistance to Fire (ASTM E48-01 & UL790)	Class A
Adhesion Strength (ASTM D3359)	100%
Abrasion Resistance	Excellent
Accelerated Weathering (D822)	Discolouration / Chalking - None
Surface Temperature Limits at Application	Min: 50°F (10°C) - Max: 110°F (44°C)
Number of Coats	2 or 3
Touch Dry @ 77°F	2 hours
Recoating Time @ 77°F	12 hours
Clean-up Medium(uncured material)	Clean Water
Surface Ozone Cracking (ASTM D1149)	70 days exposure
Breathing Trapped Water Vapour(ASTM 1653)	9.4 perms
Weight per Gallon	11.5lbs (5.2Kg)
Storage Temeperature Limits	Min: 40°F (5°C) - Max: 105°F (40°C)
Warranty	10 years

The above informations are based on internal testing and our accumulated experience. This information is given in good faith but without warranty as the conditions under which the product is used are often beyond our control. This data sheet supersedes those previously issued and may be changed without prior notice.



A single-component, cold-applied, modified polyurethane-acrylic hybrid elastomeric waterproofing membrane, designed to provide long-term, seamless protection for both new and existing structures.

KEY FEATURES



Seamless, joint-free waterproofing membrane



UV stable with high solar reflectance. (SRI 113)



Vapor permeable and fire-rated (ASTM E84 Class A)



Low VOC and environment friendly

HOW IT WORKS

Formulated with advanced hybrid elastomeric polymers, Leakguard forms a hydrophobic, joint-free membrane which cures into a UV-resistant, flexible barrier that bridges cracks and resists water ingress. With high solar reflectance and vapor permeability, it keeps surfaces protected while allowing structural breathability. Its high elongation and Class-A fire rating ensure exceptional performance even under extreme conditions.

APPLICATIONS

- ◆ Concrete roofs (flat or sloped)
- ◆ Serviced and refurbished roofs
- ◆ Metal roofs and Cool roofs
- ◆ Protection over PU foam insulation
- ◆ Concrete infrastructure like tunnels and bridge decks

APPLICATION METHOD

- ◆ Prepare a clean, dry, and stable surface
- ◆ Apply with brush, roller, squeegee, or airless spray
- ◆ Use as a single coat or in multiple layers as required
- ◆ Allow curing time per thickness and weather conditions

HEALTH AND SAFETY

- ◆ Use protective gear during application
- ◆ Ensure ventilation in enclosed areas
- ◆ Avoid contact with eyes and skin; rinse with water if needed.

Leakguard delivers seamless, UV-stable waterproofing with high flexibility, making it the ideal choice for durable, long-term surface protection.

PACKAGING OPTIONS

- ◆ Available in 18 L drum and white in colour.
- ◆ Custom colour on request.

STORAGE & HANDLING

- ◆ Store in cool, dry conditions, away from direct sunlight.
- ◆ Shelf life: 24 months in unopened original packaging



TECHNICAL DATA

Property	Value
Solar Reflectance Index (ASTM E 1980:01)	113
Solids by Volume	> 43%
Density	1.40 kg/L
Tensile Strength (ASTM D412)	1.45 N/mm ²
Elongation at Break (20°C, ASTM D412)	710%
Crack Bridging (EN 1062-7:2004)	1.95
Chemical Resistance (ASTM D543-20)	No discoloration, blistering, swelling, softening, or special phenomenon
Resistance to Fire (ASTM E84-21a)	Class A
Flame Spread Index (FSI)	5
Smoke Developed Index (SDI)	5
Adhesion Strength (ASTM D4541-22)	2.35 N/mm ²
Shore Hardness (Shore A, ASTM D2240-15(2021))	74/1- Shore A
UV Resistance/Color Stability (ASTM D4587-11)	Pass
Final Curing Time (Ponding Test)	7 days
Surface Hard Dry	72 hours
System Thickness	250–700 microns DFT
Coverage (Depends on Substrate & Thickness)	20–45 m ² /Drum
Pack Size	18 Litres
Water Vapour Transmission (ASTM E96/E96M-22a)	117.69 g/m ² /24hrs
VOC (USEPA 24)	< 1 g/L
Water Penetration (BS EN 12390-8)	Nil

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ROOFCOAT

No cracks. No leaks.
Just lasting protection.

A high-performance acrylic-based roofing compound that cures into a flexible, waterproof membrane for ultimate roof protection.

KEY FEATURES



Suitable for metal, concrete, asbestos, tiles, and more



Forms a seamless, durable, and elastic barrier



Excellent Crack Bridging ability and Elongation capacity



Possesses moisture vapour transmission properties

APPLICATIONS

- ◆ Metal and RCC roof waterproofing.
- ◆ Serviced and refurbished roofs.
- ◆ Protection over PU foam insulation.
- ◆ Fixing reinforcement fabric mesh.

APPLICATION METHOD

SURFACE PREPARATION

Ensure surfaces are clean, dry, and free from dust, grease, or loose particles. Fill all cracks, gaps, and joints before application

FOR WALLS & CONCRETE

- ◆ Stir well before use
- ◆ Apply evenly with a roller, brush, or spray

FOR METAL SURFACES

- ◆ Stir well before use
- ◆ No dilution needed for airless spray application
- ◆ Apply one coat, followed by a E-coat / Leakguard as top layer for heat reflection
- ◆ For enhanced durability, use with Buty tapes & reinforcement mesh
- ◆ Fix fabric mesh over tapes using Roofcoat

PACKAGING OPTIONS

- ◆ Available in 18 L plastic containers

STORAGE & HANDLING

- ◆ Store in a cool, dry, well-ventilated area
- ◆ Keep containers tightly sealed, away from heat and direct sunlight

HEALTH AND SAFETY

- ◆ Non-flammable
- ◆ Keep out of reach of children
- ◆ Remove skin splashes with soap and warm water
- ◆ If spraying, wear appropriate respiratory protection
- ◆ Avoid contact with eyes—rinse with water if splashed
- ◆ Ensure proper ventilation during application and drying



TECHNICAL DATA

Finish	Matt - Silk
Colour	White and Pastel colors
Specific Gravity	1.30 ± 3% kg / Litre
Solids (% by Volume)	>38%
Recommended Film thickness (WFT)	250-350 microns/coat
Theoretical Spreading Rate	2.2-3.2 M ² /lit/coat depending on surface and film thickness
Thinner/Equipment Cleaner	Clean water
Flash Point	Non - inflammable
Overcoating	With double coat of Leakguard or one coat of e-coat
Method of Application	Roller or spray. Brush on small areas and for touch up
Shelf Life	Two years when stored in original sealed containers in a cool, dry place
Elongation at break (ASTM D412:2021)	> 600%
Tensile Strength (ASTM D412:2021)	1.2 MPa
Water Vapor Transmission (ASTM E96/E96M-22)	5.39 g/m ² -h

DRYING TIME *

Touch Dry	2-3 hours at 30°C
Overcoating Time *	12 hours at 30°C
Hard Dry	24 hours

TEST RESULTS

Parameter	Method	Unit	Result	Spec.Limit
Gloss level @ 60°C	SASO 470/2016	GU	6.5	10 Max
Lead Content	METS-IP-20	ppm	<0.1	600 max
Accelerated Weathering after 300 hours*	ASTM G154-16	-	Pass	The paint film shall show no blistering, chalking, significant color fading, or other irregularities

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UNIVERSAL PRIMER

No peeling. No cracks.
Just flawless prep.

A high-penetration primer designed to prepare and stabilize surfaces before applying insulation or waterproofing coatings. Ideal for both new construction and restoration work.

KEY FEATURES



Deeply penetrates chalky, aged, or powdery surfaces



Improves topcoat bonding and reduces risk of peeling or blistering



Works on difficult substrates like old concrete or dense masonry



Forms a breathable yet water-resistant foundation layer

APPLICATIONS

- ◆ Primer for concrete, masonry, aged plasters, and metal surfaces
- ◆ Surface stabilizer for restoration projects
- ◆ Ideal base layer for waterproofing, thermal and elastomeric coatings

APPLICATION METHOD

- ◆ Clean surface thoroughly; remove dust, oil, and any loose debris
- ◆ Mix Universal Primer Part A with Universal Primer Part B.
- ◆ Stir product before use and apply with brush, roller, or spray in an even coat
- ◆ Allow 4–6 hours of drying before applying topcoat

HEALTH AND SAFETY

- ◆ Flammable – avoid exposure to flame or heat
- ◆ Use protective gloves, goggles, and a respirator if necessary.
- ◆ Work in a well-ventilated area to avoid inhalation of fumes.
- ◆ In case of contact with skin or eyes, rinse immediately with water.
- ◆ Keep out of reach of children and avoid ingestion.

Universal primer enhances surface strength and coating adhesion, making it the essential foundation for long-lasting waterproofing and insulation performance.

PACKAGING OPTIONS

- ◆ 18 Litre container
- ◆ White color
- ◆ Smooth finish

STORAGE & HANDLING

- ◆ Store in a cool, dry place away from direct sunlight.
- ◆ Shelf life: 12 months in original, unopened packaging.



TECHNICAL DATA

Property	Value
Specific Gravity	1.30 ± 3% kg/L
Solids (% by volume)	>46%
Theoretical Spreading Rate	9–11 m ² /L/Coat

Drying Time

Stage	Time (at 30°C)
Touch Dry	20–30 minutes
Overcoating Time	4–6 hours
Hard Dry	Overnight

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Benefits of priming the roof before waterproofing

- ◆ **Enhanced Durability:** Applying a primer before painting a roof establishes a protective layer that enhances paint adhesion and guards against environmental stressors such as ultraviolet radiation, moisture, and wind. This preparatory step significantly improves the roof's structural integrity and extends its service life.
- ◆ **Improved Adhesion:** Proper adhesion is essential for a durable roof coating, as inadequate bonding can cause the paint to peel, crack, or blister over time, leading to costly maintenance. Using a primer ensures a stable base for various paint types—acrylic, latex, or oil-based—promoting optimal adhesion and a smoother, longer-lasting finish.
- ◆ **Prevents Rust and Corrosion:** For metal roofs, priming is especially important due to their susceptibility to rust and corrosion, which can compromise structural integrity over time. A metal-specific primer forms a protective layer that prevents rust development, thereby preserving the roof's strength and significantly extending its lifespan.
- ◆ **Cost-effective:** While some might consider priming an additional expense, it can actually save you money in the long run. By preventing premature paint deterioration and roof damage, priming reduces the frequency of repainting and repairs. This cost-effective approach ensures that your investment in roof painting pays off over time.



CS 101-BUTYL TAPE

No stretching. No tearing
Just strong adhesion.

A high-performance, self-adhesive waterproofing tape with a polyester fabric layer and a butyl rubber binder for superior adhesion and flexibility.

KEY FEATURES



Excellent adhesion to metal, PVC, cement, glass, wood, and concrete



Flexible and easy to apply, even on irregular surfaces



UV-resistant and solvent-free for eco-friendly performance



Forms a watertight, puncture-resistant seal



Outstanding durability with a lifespan of up to 15 years



Resistant to weathering and temperature extremes (-40°C to +90°C)

APPLICATIONS

- ◆ Sealing seams and joints on metal roofs.
- ◆ Flashing around roof penetrations and vents.
- ◆ Box gutter and metal flashing seam sealing.
- ◆ Waterproofing cracks in concrete surfaces.
- ◆ Preventing air and water leaks in building structures
- ◆ Door and window installations to prevent moisture ingress
- ◆ Water-exposed industrial and transportation applications

APPLICATION METHOD

- ◆ Ensure surfaces are clean, dry, and free from oil, rust, dust, and loose particles.
- ◆ Remove the backing paper and apply the tape along the joint or crack.
- ◆ Press firmly to ensure full adhesion with no gaps or air pockets.
- ◆ Avoid stretching the tape during application.
- ◆ Overcoat with Thermilate e-coat or Leakguard within 2-4 days for prolonged durability.
- ◆ Do not apply at temperatures below 0°C or above 50°C.

PACKAGING OPTIONS

- ◆ Available widths: 75mm, 100mm and 150mm.
- ◆ Standard roll length: 40 meters

STORAGE & HANDLING

- ◆ Shelf life: 2 years from the date of purchase.
- ◆ Store in original, unopened packaging in a cool, dry place.

HEALTH AND SAFETY

- ◆ Wear gloves and protective eyewear during application.
- ◆ Ensure proper ventilation in enclosed areas.
- ◆ Avoid contact with skin and wash with soap and water if needed.
- ◆ In case of eye contact, rinse with plenty of water.
- ◆ Keep out of reach of children.



Butyl Tape provides a reliable, long-lasting seal for various waterproofing and sealing needs, ensuring structural integrity and leak prevention in diverse applications.

TECHNICAL DATA

Item	Condition	Test Result
Ingredient		One-Component Butyl Rubber
Low temperature flexibility	- 40°C (ASTM C 731)	No Cracks
Permeability	0.3mpa	0
Weathering Effect	2000 H, 68°C	No color change, no cracks
UV Resistance	U.V light for 2000 H (ASTM G-53)	No change in color or hardness, no cracking and good adhesion
Continual Force (Mins) Steel Ball	23°C, GB/T 4851-98	13.3 Minutes (Standard > 8Mins)
Clarity Humidity (g/m2 24H)	0.3mpa, 24H	0.6 (Standard <3)
Application Temperature		- 40°C to + 90°C

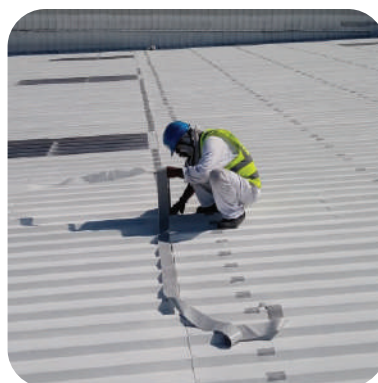
PEELING FORCE (N/CM) ASTM D 3330-02

Glass panel	23°C, 300mm/min	15.2
Cement panel	23°C, 300mm/min	16.5
Aluminum panel	23°C, 300mm/min	12.1
Copper panel	23°C, 300mm/min	13.1
Stainless Steel panel	23°C, 300mm/min	13.8
PVC panel	23°C, 300mm/min	14.5

TEST RESULTS

Parameter	Method	Unit	Result
Breaking Strength	ASTM D882-18	N/10mm	33.09
Elongation at Break	ASTM D882-18	%	92.48
Adhesion to Steel	ASTM D903-98(2017)	N/10mm	17.48

The above informations are based on internal testing and our accumulated experience. This information is given in good faith but without warranty as the conditions under which the product is used are often beyond our control. This data sheet supersedes those previously issued and may be changed without prior notice. The tape width may vary by upto ±3%.



CS 102-P.R. FABRIC

No fraying. No sagging.
Just reinforced security.

A high-performance, stitch-bonded polyester reinforcement fabric designed for exceptional strength, flexibility, and absorption for long-lasting protection.

KEY FEATURES



Stitch-bonded construction enhances durability and flexibility



Conforms to irregular surfaces and complex structures



Works with water-based, solvent-based and asphalt coatings



Excellent absorption for seamless integration with coatings



Resistant to cracking, splitting, and weathering



Easy to cut, shape, and apply for various applications

APPLICATIONS

- ◆ Reinforcement for cold-applied built-up roofing systems
- ◆ Strengthening seams, joints, and cracks in roof coatings
- ◆ Flashing and detail work in waterproofing applications
- ◆ General roof maintenance and repair
- ◆ Enhancing durability in elastomeric coatings and mastics

APPLICATION METHOD

- ◆ Ensure the surface is clean, dry, and free from debris.
- ◆ Apply the first layer of coating or adhesive to the surface.
- ◆ Embed the fabric into the wet coating, ensuring full saturation.
- ◆ Smooth out wrinkles and air pockets for optimal adhesion.
- ◆ Apply a second layer of coating to fully encapsulate the fabric.
- ◆ Allow proper drying time as per coating manufacturer's instructions.

PACKAGING OPTIONS

- ◆ Available in 100mm and 150mm widths
- ◆ Standard color: White to off-white

STORAGE & HANDLING

- ◆ Store in a dry, cool place away from direct sunlight.
- ◆ Shelf life: 5 years when stored properly.

HEALTH AND SAFETY

- ◆ Wear gloves and protective eyewear during application.
- ◆ Avoid inhalation of dust or fibers; use a mask if necessary.
- ◆ Keep away from open flames and strong oxidizers.
- ◆ Wash hands thoroughly after handling.



CS-102 Polyester Reinforcement Fabric is a high-performance, non-woven fabric designed for superior strength, flexibility, and dimensional stability. It reinforces liquid-applied membranes in waterproofing systems, especially in areas prone to structural movement. By absorbing stress, it helps prevent premature cracking and extends membrane lifespan. The fabric is lightweight, easy to install, and adheres well to various waterproofing products.

It effectively bridges dynamic cracks and reinforces weak points such as joints, internal corners, and coves. Suitable for multiple substrates like concrete, wood, stone, brick, and tile, it forms a seamless and flexible waterproof layer. The fabric distributes stress evenly, preventing leaks and enhancing durability. CS-102 is ideal for both new construction and repair projects requiring long-lasting waterproofing performance.

TECHNICAL DATA

Property	Value
Tensile Strength	57 lbs (ASTM D-1682)
Trapezoidal Tear Strength	16 lbs (ASTM D-1117)
Elongation	61–63% (ASTM D-1682)
Mullen Burst	176 lbs (ASTM D-3786)
Weight of Fabric	3 oz. / sq yard
Thread Count / Gauge	12 threads per inch (commonly called 14 gauge)
Color	White to off-white
Maximum VOC	0 (g/l)

H.M.I.S. Ratings

Category	Rating
Flammability	0
Health	0
Reactivity	0
Protective Equipment	A

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T 103-BUTYL SEALANT

No curing. No cracking
Sealing joints built to last.

A high-performance, non-curing butyl rubber sealant designed specifically for sealing joints with superior adhesion, flexibility, and weather resistance.

KEY FEATURES



Non-curing formula ensures permanent flexibility and prevents cracking



Provides an airtight and watertight seal to prevent water leaks



Highly elastic, low permeability, odorless and resists both weathering and aging



Prevents staining or damaging coated steel



Exceptional adhesion to steel, galvanized metal, concrete and other surfaces



Resistant to extreme temperatures from -40°C to 70°C



Non-sagging, easy application for vertical and overhead joints



Long service life, reducing maintenance and repair costs

APPLICATIONS

- ◆ Sealing steel roofing and cladding joints
- ◆ Waterproofing overlapping steel panels and ventilation points
- ◆ Filling surface cracks in concrete walls and roofing.

APPLICATION METHOD

- ◆ Ensure steel surfaces are clean, dry, and free from dust, oil, or rust.
- ◆ Cut the nozzle to the desired bead size and puncture the seal inside the nozzle.
- ◆ Load the cartridge into a caulking gun and apply a continuous, even bead along the joint.
- ◆ Press the sealant firmly into place to ensure full contact and adhesion.
- ◆ Apply between 5°C to 45°C for optimal performance.
- ◆ If exposed to direct sunlight, reinforce with fabric mesh or protective coatings for enhanced durability.

HEALTH AND SAFETY

- ◆ Keep away from fire sources and out of reach of children.
- ◆ Avoid prolonged skin contact; wash with soap and water if needed.
- ◆ In case of eye contact, rinse immediately with water and seek medical attention.

PACKAGING OPTIONS

- ◆ Available in 310ml cartridges (30 cartridges per carton)
- ◆ Standard color: Grey

STORAGE & HANDLING

- ◆ Store in a cool, ventilated area in original, unopened packaging.
- ◆ Shelf life: 1 year from production date (storage period may shorten at high temperatures).



TECHNICAL DATA

Item	Unit	Result
Main Component	—	One-Component Butyl Rubber
Low Temperature Performance	—	-40°C No Crack
Solid Content	%	85%±2
Surface Structure	—	Colloid
Tensile Strength	Kpa	28
Viscosity	dpa.s	1500–2000
Density	g/cm ³	1.40±0.1

Peeling Force

Substrate	Unit	Result
Aluminum	N/cm	2.4
Steel	N/cm	3.1
Cement	N/cm	2.4

Note: All testing condition temperature is set at 23°C besides low/High Temperature testing.

TEST RESULTS

Parameter	Method	Unit	Result	Spec.Limit
Artificial Weathering Duration: 500 Hours	ASTM C732-17(2022)	-	None after Weathering	None after Weathering
Adhesion Loss	ASTM C736-17(2022)	%	19	25 Max
Volume Shrinkage	ASTM C1241-14(2022)	%	23	30 MaX
Low Temperature Flexibility @ 18°C	ASTM C734-15(2019)	-	No cracking through to substrate or adhesion loss	No cracking through to substrate or adhesion loss
Recovery	ASTM C736-12(2022)	%	81	75 Min
Stain Index	ASTM D2203-01(2018)	mm	2.82	3 Max
Extrudability	ASTM C731-15(2022)	g/s	2.27	2 Min

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T 104-PU SEALANT

No gaps. No cracks
Just superior sealing.

A high-performance, single-component ultra-low modulus polyurethane sealant that cures with atmospheric moisture to form a durable, flexible rubber seal for superior joint protection.

KEY FEATURES



Meets stringent international stds: ISO 11600 F =25LM, SNJF C cat 1, UBATC, DIN 18540 & ASTM C920, Type S, Grade NS, Class 100/50



Excellent adhesion without primer to most construction materials



Paintable, low VOC, and eco-friendly & Non-staining on most porous substrates



Stable at high temperatures and resistant to corrosive agents.



High flexibility and movement accommodation (+100/-50%)



Resistant to chemicals, seawater, and sewage



Resistance to moisture, aging and various weather conditions.



Excellent UV and ozone resistance, ensuring durability in outdoor applications

APPLICATIONS

- ◆ Expansion and joint sealing for precast concrete, brickwork, and masonry
- ◆ Sealing metal roof bolts and joints.
- ◆ Curtain wall and parameter sealing
- ◆ Bonding and sealing glass, glazed surfaces, aluminium, steel, plastics, and rubber
- ◆ UPVC and painted wood sealing
- ◆ Concrete flooring and industrial joints
- ◆ Adhesive for PIR, PUR, and EPS insulating foam boards
- ◆ Exterior Insulation Finish Systems (EIFS) and facade weatherproofing .

APPLICATION METHOD

- ◆ Ensure all surfaces are clean, dry, and free from dust, grease, and loose particles.
- ◆ If necessary, apply a suitable primer to enhance adhesion.
- ◆ Use self-adhesive tape to protect joint sides if required.
- ◆ Apply the sealant in a continuous, even bead with clean lines and uniform thickness.
- ◆ Tool the sealant slightly concave using dry tooling techniques.

PACKAGING OPTIONS

- ◆ Available in 600ml foil packs or cartridges
- ◆ Standard color: Grey

STORAGE & HANDLING

- ◆ Store in original, unopened packaging in a cool, dry place.
- ◆ Shelf life: 6 months when stored properly.



HEALTH AND SAFETY

- ◆ Wear goggles, gloves, and a breathing mask during application.
- ◆ Ensure proper ventilation in confined spaces.
- ◆ Remove splashes from skin with soap and water.
- ◆ Keep out of reach of children.
- ◆ Do not apply to damp or wet surfaces.

T-104 Polyurethane Sealant is designed to provide long-term performance in dynamic conditions, making it a trusted choice for a variety of sealing and bonding applications. It offers excellent adhesion to a wide range of substrates, ensuring reliable sealing even in challenging environments.

TECHNICAL DATA

Property	Value
Density	1.5 ± 0.05gm/ml
Joint movement capacity	White and Pastel colors
Specific Gravity	+100/-50%
Temperature resistance	-30°C - + 90°C
Chemical resistance to jet fuel @ 50oC for 7 days	No effect
Shore Hardness	25 ± 5
100% Modulus	0.4MPa
Tensile Strength	1.41-1.47 MPa
Elongation at break	985 - 1200%
Adhesion to concrete	0.97 – 1.17 MPa
VOC	8.79 gm/l LEED NC-2016, IEQC 4.1, LEM
Curing rate / time	1mm/day@23°C Initial: 1 hour @23°C Final: 7 days @23°C
Adhesion in peel Glass / Aluminum / Concrete	90 N 0% Adhesion Loss

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THERMILATE SCRIM

No fraying. No sagging.
Just reinforced protection.

A high-performance, non-woven polyester reinforcement fabric designed for exceptional strength, flexibility, and absorption for long-lasting protection.

KEY FEATURES



Remains unaltered and is resistant to alkalis contained in cement



Excellent resistance to environmental and weathering effects.



Retains its shape and size under varying temperatures and moisture conditions.



Lightweight composition makes it easy to transport, position, and install on site.



Easily cut to the required dimensions without fraying, enabling application



May be adapted to the profile of all types of substrates.

APPLICATIONS

- ◆ Large-scale containment basins.
- ◆ Retaining walls
- ◆ Foundations
- ◆ Hanging gardens
- ◆ Flat roofs Swimming pools and terraces
- ◆ Bathrooms and shower booths / cubicles / wet rooms

GENERAL PROCEDURE

- ◆ Prepare the liquid membrane by mixing its components as instructed.
- ◆ Apply the first coat of the membrane evenly on the surface.
- ◆ While the first coat is still fresh, carefully lay the Thermilate Scrim on the surface and press it firmly with a flat-bladed trowel to ensure full wetting.
- ◆ Apply a uniform-thickness second layer of membrane to completely cover the Thermilate Scrim.
- ◆ Overlap adjacent sheets of Thermilate Scrim by at least 5cm at both longitudinal and transverse junctions.

PACKAGING OPTIONS

- ◆ Available in 1m or half meter widths.
- ◆ Standard color: White to off-white.

STORAGE & HANDLING

- ◆ Store in a dry, cool place away from direct sunlight.
- ◆ Shelf life: 5 years when stored properly.

APPLICATION METHOD

- ◆ Ensure the surface where Thermilate Scrim is to be applied is sound and perfectly clean.
- ◆ Remove all cement laitance, loose particles, powder, grease, oil, and release agents by sandblasting or washing with high-pressure water jets.
- ◆ Measure the application area and cut the Thermilate Scrim to the required size.
- ◆ If applying together with a liquid-applied waterproofing membrane, follow the specific guidelines provided by the Thermilate technical team.



HEALTH AND SAFETY

- ◆ Wear gloves and protective eyewear during installation.
- ◆ Avoid inhalation of dust or fibers; use a mask if necessary.
- ◆ Keep away from open flames and strong oxidizers.
- ◆ Wash hands thoroughly after handling.

Thermilate Scrim is a reinforcement fabric made from continuous synthetic polyester fibers, bonded through a mechanical needle-punch process. It's particularly recommended for strengthening liquid-applied waterproofing membranes, enhancing their properties such as toughness, puncture resistance, ultimate elongation, and crack-bridging capability.

TECHNICAL DATA

Property	Standard	Unit	Result
Mass / Unit Area	ASTM D 5261/EN ISO 9864	gms/m ²	70
Thickness (2kN/m ²)	ASTM D 5199/EN ISO 9863-1	mm	0.7
Mechanical Properties			
Wide Width Tensile strength (MD)	ASTM D 4595/EN ISO 10319	kN/m	2.5
Wide Width Tensile Strength (CD)	ASTM D 4595/EN ISO 10319	kN/m	2.0
Wide Width Tensile Elongation (MD)	ASTM D 4595/EN ISO 10319	%	>45
Wide Width Tensile Elongation (CD)	ASTM D 4595/EN ISO 10319	%	>45
Puncture Strength (CBR)	ASTM D 6241/EN ISO 12236	N	500
Hydraulic Properties			
Opening Size O95	ASTM D 4751	mm	0.212 (70)
Flow Rate-5cm head	EN ISO 11058	l/m ² /s	120
Permittivity	ASTM D 4491	sec-1	2.4
Roll Dimensions			
Roll Width		m	As per need
Roll Length		m	50
Roll Area		m	As per need

The above informations are based on internal testing and our accumulated experience. This information is given in good faith but without warranty as the conditions under which the product is used are often beyond our control. This data sheet supersedes those previously issued and may be changed



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