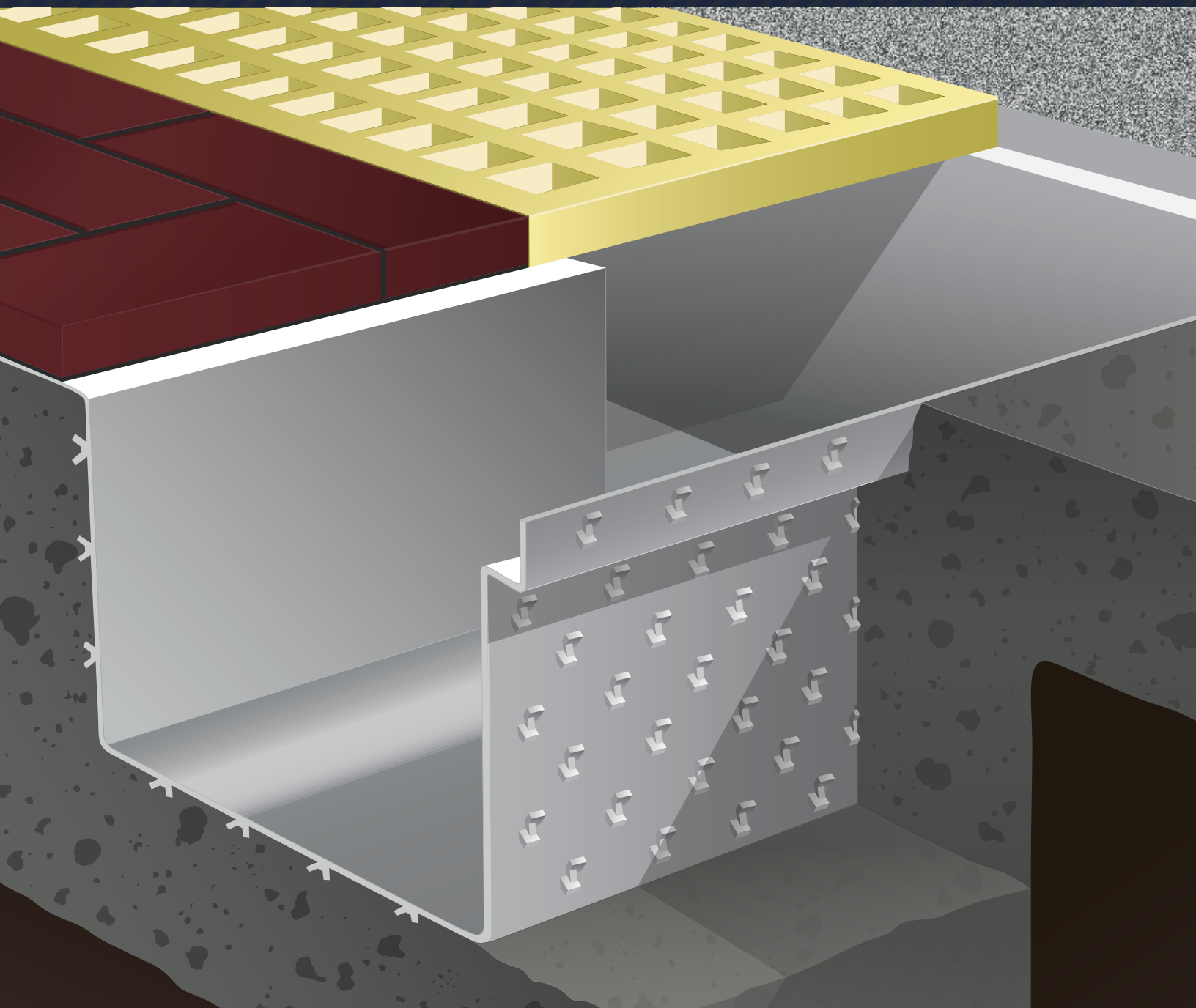




ACROLINE™ SYSTEMS

Anchored Thermoplastic Concrete Protection Liners



ACROLINE™ SYSTEMS

SEAL AND PROTECT VIRTUALLY ANY CONCRETE STRUCTURE

- » Storage tanks
- » Process vessels
- » Digesters
- » Basins
- » Sumps
- » Pits
- » Manholes
- » Lift stations
- » Trenches



CONTAINMENT RELIABILITY

ACROLINE Systems are a suite of semi-finished thermoplastic sheets and accessories that are welded together to form leak-tight liners for concrete structures in fluid containment service. Numerous V-shaped anchors, integrally molded into one side of the sheets during the extrusion process, lock the liners into the concrete surfaces.

Unlike coatings that are applied after the concrete cures, ACROLINE Systems are attached to the concrete formwork before fresh concrete is placed.

MECHANICAL INTEGRITY

The robust anchors—39 per square foot, 420 per square meter—are specially designed to prevent separation from the sheets or concrete under stress. Shear strength exceeds 405 lb (1.8 kN) per anchor. They allow the liners to resist up to 30 ft (10 m) of hydrostatic backpressure, making ACROLINE Systems well-suited for use in buried structures in high groundwater.



SUPPLY RANGE

Thermoplastic	Colors	UV-Resistant	Thickness	Sheet Size
High-density polyethylene (HDPE)	Black	✓	2, 3, 4, 5, 6, 8, 12 mm	2 m x 4 m
	Black-White Coextruded	✓	5 mm	2 m x 4 m
Polypropylene, block copolymer (PP-B)	Black	✓	5 mm	2 m x 4 m
	Gray		2, 3, 4, 5, 6, 8, 12 mm	2 m x 4 m
Polyvinylidene fluoride (PVDF)	Natural	✓	3 or 4 mm	1.5 m x 3 m
Ethylene-chlorotrifluoroethylene copolymer (ECTFE)	Natural	✓	2.5 mm	1 m x 3 m

Rolled sheet and custom sheet sizes up to 16.4 feet wide available, subject to order minimums. ACROLINE Systems with fabric facing, nonskid surface, and extra-long anchors available in limited thermoplastic types and thicknesses for special applications.

ANCHORED THERMOPLASTIC CONCRETE PROTECTION LINERS

CHEMICAL RESISTANCE

Available in high-density polyethylene, block copolymer polypropylene, polyvinylidene fluoride, and ethylene-chlorotrifluoroethylene copolymer, ACROLINE Systems protect concrete against permeation and degradation by a wide range of chemicals.

FAST TURNAROUND

ACROLINE Systems make it possible to construct concrete structures with corrosion protection built in. Many trench and sump liners can be shop-fabricated and supplied with foam concrete formwork, slashing field construction and turnaround time.



QUALITY

Shop and field seams between sheets and subassemblies are welded and nondestructively tested for leak-tightness in accordance with ASTM D4787-13 (2018) Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Structures.

THERMAL CYCLING

The closely spaced anchors—less than 2.4 inches (6 cm) on center—restrain expansion and contraction of the liners, limiting deformation and preventing pull-out from the concrete as temperatures fluctuate. When tested in accordance with ISO 4624, pull out resistance exceeds 16,500 psf (800 kN/m²).™

Armor recommends using thermoplastic welders who have demonstrated proficiency in accordance with American Welding Society standard AWS G1.10M:2016 Guide for the Evaluation of Hot Gas, Hot Gas Extrusion, and Heated Tool Butt Thermoplastic Welds. Consult your Armor sales representative for referrals to experienced ACROLINE Systems thermoplastic fabricators.



From its people to its products, Armor works.

Top to bottom, inside and out, Armor products shield structures against the ravages of moisture, corrosion, and wear. Its sophisticated solutions meet the challenges of demanding installation, application, and service conditions. Whether your goal is to preserve the environment, minimize maintenance downtime, or extend service life, Armor's engineered linings, adhesives, and sealants keep its customers' equipment, facilities, and products functioning at peak performance. Let Armor work for you.

Armor Limited, Inc. is a division of SWT Group.

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