

Epoxy Multi Prime + ArmourCoat® Polyurea PURE High Strength

IPC-ME-AR-2L-01-SS • Processing — Severe Abrasion & Impact Elastomeric Lining System

 2 COATS SYSTEM BUILD - NUMBER OF COATS	 C5 / CX ISO 12944-2:2017 ENVIRONMENT	 1,575 µm TOTAL SYSTEM DFT	 VERY HIGH EXPECTED DURABILITY - >25 YRS	 Sa 2½ SURFACE PREPARATION GRADE
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DESCRIPTION

An anti-corrosive epoxy primer overcoated with a high-strength pure polyurea elastomer, spray-applied as a seamless monolithic membrane. Cures in seconds for rapid return to service and builds from 0.5 mm to unlimited thickness for extreme abrasion, impact and moisture service.

Epoxy Multi Prime — Two component, high build, zinc phosphate pigmented epoxy primer providing the anti-corrosive base and adhesion layer for the polyurea.

ArmourCoat® Polyurea PURE High Strength — High-strength thermoset plural-component pure aromatic polyurea; 100% solids, zero VOC. Gel time 20 s; walk-on in 10 minutes at 1.5 mm. Thermally stable to 150 °C; Shore A 92 / Shore D 45.

SYSTEM BREAKDOWN

SYSTEM BUILD — LAYER • VOLUME SOLIDS • DFT • THEORETICAL YIELD					
Layer	Product	Vol. Solids	DFT	Theoretical Yield ¹	Comments
Primer	Epoxy Multi Prime	60% ±2	75 µm	8.0 m²/L @ 75 µm	Overcoat within primer recoat window
Lining	ArmourCoat® Polyurea PURE High Strength	100%	1,500 µm	0.67 m²/L @ 1,500 µm	Plural-component heated spray, 1:1 by volume
TOTAL	Total system dry film thickness		1,575 µm		

¹ Theoretical yield = Volume Solids × 10 ÷ DFT (µm), per product TDS — allow for application loss factors.

SURFACE PREPARATION

Abrasive blast clean to Sa 2½ (ISO 8501:2007) / SSPC-SP6, profile 40–70 µm; degrease per SSPC-SP1. Prime within 4–8 h of blasting to prevent flash rusting. Polyurea recoat windows must be strictly adhered to — over 4 h, abrade, de-dust and re-prime.

OVERCOATING INTERVALS

DRYING & OVERCOATING — SUBSTRATE TEMPERATURE AS STATED			
Product	Minimum	Maximum	If window exceeded / notes
Epoxy Multi Prime	8 h @ 20 °C	No limitation if surface clean (Extended*)	Apply polyurea within the primer overcoating window
ArmourCoat® Polyurea PURE (self-recoat)	4 min @ 20 °C	4 h (with re-activation)	Over 4 h: abrade, de-dust and re-prime with 2K PU SF / 1K PU Primer

Overcoating information is a guide only and is subject to climate and site conditions — the product TDS governs.

INTENDED USES & BENEFITS

- Chutes, hoppers, bins and materials-handling plant — severe sliding abrasion and impact
- Secondary containment, tank and pipe linings (interior and exterior)
- Truck bed liners, industrial flooring, water barrier membranes
- Aromatic chemistry — overcoat with aliphatic PU (e.g. PU DTM Flexi) where colour stability is required

ISO 12944 CLASSIFICATION & EXPECTED DURABILITY

Environment classification	C5 / CX-capable barrier; Im1–Im3 immersion-capable (ISO 12944-2:2017); severe abrasion service
Expected durability	Very High (>25 years, ISO 12944-1:2017) — barrier membrane

Aligned to the Master Reference severe-abrasion system (workbook build 1,500–3,000 µm); classification and durability are a Specialized Coating Systems technical assessment.

NOTE: All products shall be applied according to the instructions and within the application parameters given on the Speccoats™ Technical Data Sheet (TDS) for each product — the TDS governs in any conflict. Expected durability = time to first major maintenance (ISO 12944-1:2017), not a guarantee.