Epoxy Asphalt Mastic × 2 coats

IPC-PT-IC-2L-03-SS · Processing — *Buried & Immersed Steel Barrier System (Coal-Tar Free)*

2 COATS	Im1–Im3	350 µm	HIGH	Sa 2½
SYSTEM BUILD · NUMBER OF COATS	ISO 12944-2:2017 ENVIRONMENT	TOTAL SYSTEM DFT	EXPECTED DURABILITY · 15–25 YRS	SURFACE PREPARATION GRADE

DESCRIPTION

A heavy-duty, high-build, coal-tar-free epoxy mastic barrier applied in two coats for buried and immersed steel and concrete — the modern replacement for coal tar epoxy, outperforming it on toxicity, film embrittlement and application properties.

Epoxy Asphalt Mastic — Two component, high build, chemically cured, asphalt-modified epoxy mastic. Surface tolerant and self-priming; excellent resistance to alkalis, dilute acids, sewage, salt brine, liquid fertilizers and crude oil, with excellent fresh and salt water immersion resistance.

SYSTEM BREAKDOWN

SYSTEM BUILD — LAYER · VOLUME SOLIDS · DFT · THEORETICAL YIELD

Layer	Product	Vol. Solids	DFT	Theoretical Yield[1]	Comments
1st coat	Epoxy Asphalt Mastic	70%	175 µm	4.0 m²/L @ 175 µm	Self-priming on most surfaces
2nd coat	Epoxy Asphalt Mastic	70%	175 µm	4.0 m²/L @ 175 µm	Overcoat from 24 h @ 20 °C
TOTAL	**Total system dry film thickness**		**350 µm**	*TDS: 300–400 µm for immersion / underground*	

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

SURFACE PREPARATION

Immersion service: abrasive blast to Sa 2½ (ISO 8501-1:2007) / SSPC-SP10, jagged profile 38–62 µm. Atmospheric service: Sa 2 / SSPC-SP6 minimum; weld seams and damage to St3. Remove soluble salts by freshwater rinsing; degrease per SSPC-SP1. Concrete: remove laitance by light blasting.

OVERCOATING INTERVALS

DRYING & OVERCOATING — SUBSTRATE TEMPERATURE AS STATED

Product	Minimum	Maximum	If window exceeded / notes
Epoxy Asphalt Mastic (each coat)	24 h @ 20 °C	4 days @ 20 °C	Chalking on exterior exposure is not detrimental to overcoating

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

INTENDED USES & BENEFITS

- Underground steel storage tanks and buried steel piping
- Sewage and wastewater treatment plants, refineries, chemical and fertilizer plants
- Fresh and salt water immersion — bridges, pilings, basins and pits
- Concrete tank / reservoir linings subject to pH 4–10

ISO 12944 CLASSIFICATION & EXPECTED DURABILITY

Environment classification	Im1 / Im2 / Im3 immersion & buried service (ISO 12944-2:2017); buried pipelines additionally per ISO 21809
Expected durability	High (15–25 years, ISO 12944-1:2017)

For buried line pipe, ISO 21809 governs external coatings alongside ISO 12944 Im3; 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.