

COMPARISON BETWEEN DUO AND SOPRASUN PLUS WATERPROOFING MEMBRANE SYSTEMS



This document provides an overview of the differences between the EQUUS SOPREMA DUO and SOPRASUN PLUS membrane systems. Both are high-performance, two-layer bituminous waterproofing systems, manufactured by Soprema and supplied in New Zealand by Equus Industries. While both hold CodeMark certification and BRANZ Appraisal, they are designed for different project requirements – SOPRASUN PLUS offering cost-efficient reliability, and DUO providing premium long-term durability and assurance.

DUO MEMBRANE SYSTEM – SBS/TPO HYBRID

The DUO Roof & Deck Membrane combines SBS-modified bitumen (Styrene Butadiene Styrene) and TPO-modified bitumen (Thermoplastic Polyolefin) polymer technologies in a dual-layer configuration. The TPO-modified cap sheet provides superior UV stability and surface durability, while the SBS-modified base sheet delivers excellent flexibility and adhesion.

KEY FEATURES

- Two-layer hybrid system (approx. 6.8 mm total thickness)
- Superior durability: proven life expectancy of 35+ years (DuO Durability Study)
- 20-year insurance-backed warranty available
- Certified: CodeMark CMNZ70151 and BRANZ Appraisal 685
- Low chip loss (2–3%) and strong UV resistance
- Suitable for warm/cold roofs, decks, solar integration, and green roofs

SOPRASUN PLUS MEMBRANE SYSTEM – APP MODIFIED

The SOPRASUN PLUS system is a two-layer APP (Atactic Polypropylene) modified bitumen membrane offering durable, cost-effective waterproofing with excellent UV and heat resistance. It is a like-for-like equivalent to competitor APP systems, offering the same certified performance at a more competitive membrane price.

KEY FEATURES

- Two-layer APP-modified bitumen system (approx. 6 mm total thickness)
- Excellent UV and heat resistance
- Service life: 20–25 years
- 20-year Equus warranty
- Certified: CodeMark CMNZ70151 and BRANZ Appraisal 819
- Equivalent performance to competitors at a lower cost



SYSTEM COMPARISON SUMMARY

SYSTEM	DUO (SBS/TPO HYBRID)	SOPRASUN PLUS (APP MODIFIED)
Polymer Type	SBS-modified + TPO-modified	APP
Layers	Two (Base + Cap)	Two (Base + Cap)
Total Thickness	~6.8 mm	~6.0 mm
Flexibility (Cold Climate)	Excellent	Moderate
Heat & UV Resistance	Superior	Very Good
Warranty	20-year insurance-backed	20-year
Life Expectancy	35+ years	20–25 years
Certification	CodeMark CMNZ70151 / BRANZ 685	CodeMark CMNZ70151 / BRANZ 819
Ideal Use	Long design life projects	Cost-effective standard applications

MEMBRANE COST COMPARISON

Indicative membrane-only supply costs, expressed relative to competitor APP systems (set at 100%):

SYSTEM	RELATIVE MEMBRANE COST	WARRANTY	TYPICAL LIFE EXPECTANCY
DUO	~115–120%	20-year insurance-backed	35+ years
SOPRASUN PLUS	~85–90%	20-year	20–25 years
Competitor APP Systems	100% (baseline)	15–20-year	~20 years

Summary:

- SOPRASUN provides equivalent technical performance and compliance at 10–15% lower membrane cost than competitor APP systems.
- DUO represents a 15–20% premium but offers extended lifespan, enhanced flexibility, and an insurance-backed warranty.

CONCLUSION

Both systems offer proven waterproofing performance and full compliance:

- SOPRASUN PLUS – cost-effective, certified APP-modified solution ideal for standard projects.
- DUO – high-performance SBS-modified/TPO-modified hybrid system with superior long-term durability and assurance for premium applications.

