

ONE

HIGH BIO-CONTENT
RESIN

Technical Data Sheet

SUPER SAP® ONE System

High bio-based content epoxy resin for general laminations and coatings

Product Overview

SUPER SAP® ONE SYSTEM is the industry leader for USDA BioPreferredSM certified, ambient cure, laminating resin systems. Based upon our original Super Sap 100/1000 formula, this new system features a faster speed, lowered viscosity, and includes quick air-releasing properties ideal for fibre-reinforced composite laminations and coatings. Super Sap® ONE was designed to achieve an excellent balance of high performance and industry leading bio-based, renewable content. Super Sap – Make Things Better.

ONF
FAST

ONS
SLOW

MECHANICAL DATA

Tensile Modulus (ASTM D638)	2.7 GPa	3.2 GPa
Tensile Strength (ASTM D638)	53.2 MPa	67.6 MPa
Elongation (ASTM D638)	6%	6%
Flexural Modulus (ASTM D790)	2.5 GPa	3.0 GPa
Flexural Strength (ASTM D790)	82.1 MPa	100.5 MPa
Compression Strength (ASTM D695)	77.9 MPa	86.3 MPa
Tg Ultimate (DSC, midpoint)	86°C	77°C
Hardness (Shore D)	70-80	70-80

PROCESSING DATA

Mix Ratio (by volume)	2:1	2:1
Mix Ratio (by weight)	100:43	100:47
Viscosity (A/B/Mixed @ 25 °C)	1850/450/500	1850/500/800
Component Density (specific density @ 25°C)	1.14 (resin), 0.98 (hardener)	1.14 (resin), 0.98 (hardener)
Mixed Density (specific density @ 25°C)	1.09	1.09
Pot Life (@ 25°C)	18 min	43 min
Tack Free Time (@ 35°C)	3 hrs	8 hrs
Recommended Full Cure	7 days @ 25°C	7 days @ 25°C, Post cure recommended

ENVIRONMENT DATA

VOC Content (ASTM D2369)	21.0 g/l	16.3 g/l
Biobased Carbon Content (ASTM D6866)	30%	29%

These are typical properties and cannot be construed as a specification. The end users should test the products to ensure the products are suitable for the intended application. Any information, data, advice or recommendation published by Wessex Resins or obtained from Wessex Resins by other means and whether relating to Wessex Resins' materials or other materials, is given in good faith and believed to be reliable.

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