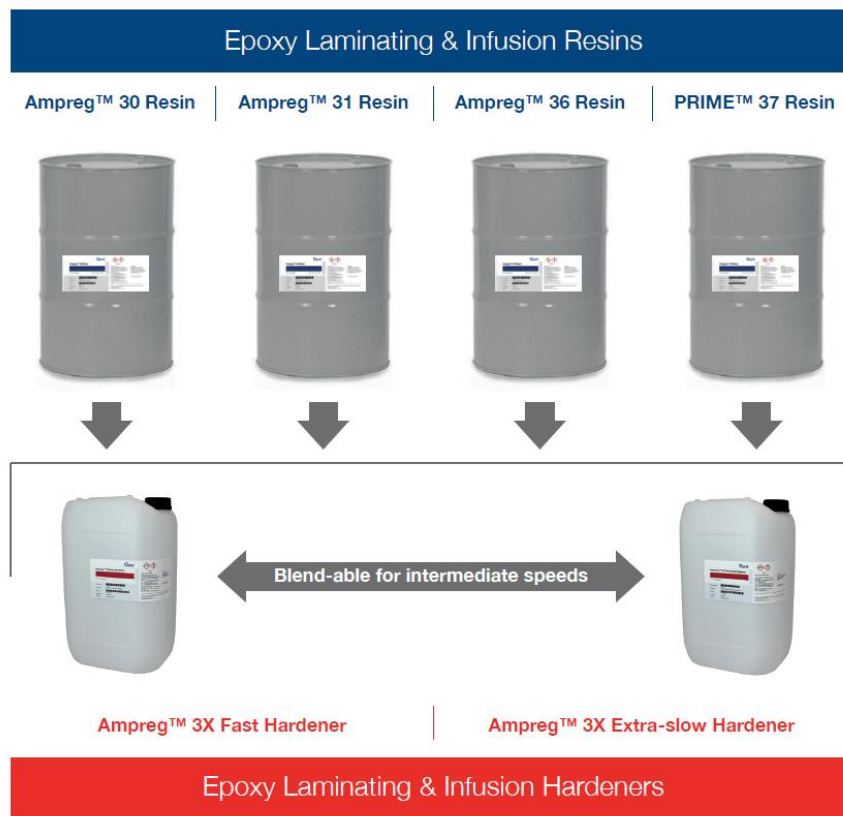


AMPREG™ 3X SYSTEMS

LOW TOXICITY LAMINATING & INFUSION EPOXY

- Compatible with Ampreg™ 30, 31 and 36 epoxy laminating systems
- Compatible with PRIME™ 37 epoxy infusion system
- Compatible with a range of speciality systems:
 - Ampreg™ 21FR fire retardant epoxy laminating resin
 - Ampreg™ 3X Adhesion Promoter for vinylester / epoxy bonding
 - Ampreg™ 3X F230-2 foaming epoxy resin
 - Ampreg™ 3X Thixotropic Pregel for epoxy resin thickening & drainage resistance
- DNV & Lloyds Register Certified formats available
- Improved Hazard Labelling, CMR & SVHC* Free & Reduced Environmental Hazards



*AMPREG™ 3X Fast, Standard, Slow, Extra-Slow, Ultra-Slow and PRIME™ High Tg hardeners all benefit from being free from:

- CMR = Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
- SVHC = Substances of Very High Concern

PRODUCT SELECTOR

The table below summarises all of the compatible Ampreg™ 3X resins and hardeners.

SYSTEM PROPERTIES AT 25°C**			MIX RATIO RESIN : HARD (BY WEIGHT)	MIXED VISCOSITY**	150g POT-LIFE**	Tg1 by DMA (16HRS @ 50°C)	TECHNICAL DATASHEET	
INFUSION SYSTEMS	PRIME™ 37 Resin Premium performance infusion system with excellent fibre wetting and bio-based content as standard. DNV and Lloyd's Register certified. Replaces PRIME™ 27.	3X Fast Hardener	100 : 29	500 cP	½ hour	71.5	Download (PDF)	
		3X Standard Hardener		200 cP	1 hour	72.3		
		3X Slow Hardener		200 cP	4 hours	73.9		
		3X Extra-slow Hardener		150 cP	10 ½ hours	64.2		
		PRIME™ High Tg Hardener	100 : 25	500 cP	5 hours	75.0		
LAMINATING SYSTEMS	Ampreg™ 30 Resin Low initial mixed viscosity & good cure progression from ambient only cures, DNV Certified, Replaces Ampreg™ 21	3X Fast Hardener	100 : 26	900 cP	½ hour	74.0	Download (PDF)	
		3X Standard Hardener		750 cP	1 hour	73.0		
		3X Slow Hardener		350 cP	4 hours	71.0		
		3X Extra-slow Hardener		300 cP	7 hours	70.0		
		3X High Tg Hardener	100 : 29	825 cP	8 ½ hours	76.0		Download (PDF)
		3X Ultra-Slow Hardener	100 : 29	300 cP	9 ¾ hours	66.0		Download (PDF)
	Ampreg™ 31 Resin Viscosity optimised for good fabric wet-out and drainage resistance, DNV Certified, Replaces Ampreg™ 22	3X Fast Hardener	100 : 26	1300 cP	½ hour	76.0	Download (PDF)	
		3X Standard Hardener		1000 cP	1 hour	73.0		
		3X Slow Hardener		500 cP	3 ½ hours	73.0		
		3X Extra-slow Hardener		400 cP	6 hours	72.0		
		3X High Tg Hardener	100 : 28	1100 cP	5 ¾ hours	77.0		Download (PDF)
		3X Ultra-Slow Hardener	100 : 29	375 cP	7 ¾ hours	66.0		Download (PDF)
	Ampreg™ 36 Resin Improved fabric impregnation, Faster mechanical property generation, High flexural properties, Replaces Ampreg™ 26	3X Fast Hardener	100 : 29	700 cP	½ hour	75.0	Download (PDF)	
		3X Standard Hardener		450 cP	1 hour	73.0		
		3X Slow Hardener		275 cP	3 ½ hours	70.0		
		3X Extra-slow Hardener		200 cP	6 hours	69.0		
	SPECIALITY SYSTEMS	Ampreg™ 21FR Resin Fire retardant epoxy wet laminating system, with indicative FST performance evaluated FAR Part 25 (60s flame applied).	3X Fast Hardener	100 : 17	-	½ hour	-	Download (PDF)
			3X Standard Hardener		-	1 ¼ hours	-	
3X Slow Hardener			-		2 ¾ hours	-		
3X Extra-slow Hardener			-		6 ¼ hours	-		
3X Ultra-Slow Hardener			100 : 18	-	7 hours	75.6		
Ampreg™ 3X AP Resin Improves vinylester/epoxy adhesion & to enable use of polyester gelcoats.		3X Slow Hardener	100 : 26	600 cP	3-4 hours	66.7	Download (PDF)	
		3X Extra-slow Hardener		500 cP	6-7 hours	63.2		
Ampreg™ 3X F230-2 Resin Foaming epoxy, 150– 300kg/m³		3X Slow Hardener	100 : 22	600 cP	1 hour	-	Download (PDF)	
Ampreg™ TP Resin Thixotropic Pregel is a resin additive with a grease-like consistency, which is used primarily as a thixotrope - to be added to low viscosity laminating resins for applications where resin drainage is a concern.		3X Fast Hardener	100 : 24	-	½ hour	-	Download (PDF)	
		3X Standard Hardener		-	1 hour	-		
		3X Slow Hardener		-	3 ½ hours	-		
		3X Extra-slow Hardener		-	6 hours	-		

**working time properties are highly subjective to ambient conditions and should be used as an approximate guideline for all Ampreg™ 3X systems at 25°C. Please refer to the corresponding page of this document for specific testing methods used.

NOTICE

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The Company strongly recommends that Customers make test panels in the final process conditions and conduct appropriate testing of any goods or materials supplied by the Company prior to final use to ensure that they are suitable for the Customer's planned application. Such testing should include testing under conditions as close as possible to those to which the final component may be subjected. The Company specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by the Company. Due to the varied nature of end-use applications, the Company does, in particular, not warrant that the test panels in the final process conditions and/or the final component pass any fire standards.

The Company reserves the right to change specifications and prices without notice and Customers should satisfy themselves that information relied on by the Customer is that which is currently published by the Company on its website. Any queries may be addressed to the Technical Services Department.

Gurit is continuously reviewing and updating literature. Please ensure that you have the current version by contacting your sales contact and quoting the revision number in the bottom left-hand corner of this page.

TECHNICAL CONTACT INFORMATION

For all other enquiries such as technical queries:

Telephone + 44 1983 828000 (08:30 – 17:00 GMT)
Email technical.support@gurit.com

24-HOUR CHEMICAL EMERGENCY NUMBER

For advice on chemical emergencies, spillages, fires or exposures:

Europe +44 1273 289451
Americas +1 646 844 7309
APAC +65 3158 1412

E customer.support@gurit.com

W www.gurit.com