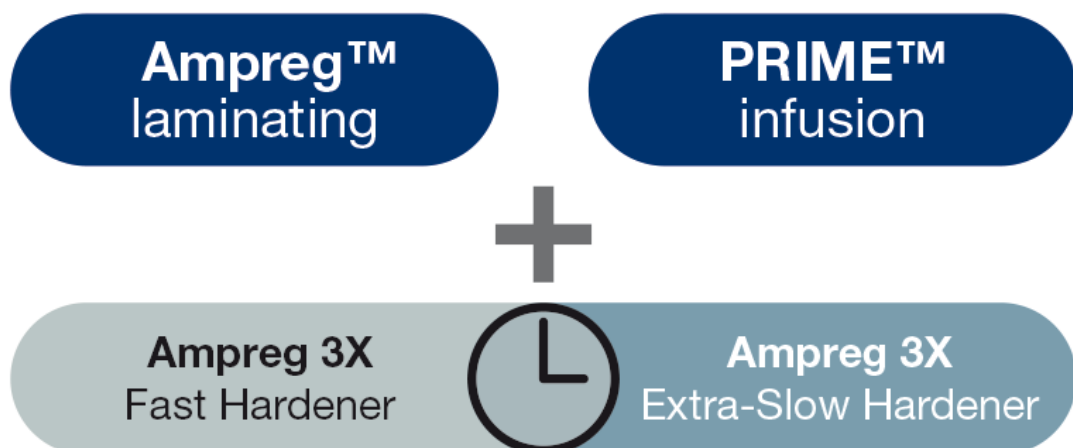


# AMPREG™ 3X SYSTEMS

## Complete cross over system for laminating and infusing

- 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

## THE NEW GURIT FORMULATED SERIES





## Simple. Structural. Safe.

\*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 (BY WEIGHT)	MIXED VISCOSITY**	150g POT-LIFE**	MAX TEMP	TECHNICAL DATASHEET	
INFUSION SYSTEMS	<b>PRIME™ 37 Resin</b> Premium performance infusion system with excellent fibre wetting and bio-based content as standard. Replaces PRIME™ 27.  3 <sup>rd</sup> party certified: • DNV-GL <a href="#">Download (PDF)</a> • Lloyd's Register <a href="#">Download (PDF)</a>	3X Fast Hardener	100 : 29	500 cP	½ hour	72 °C	 <a href="#">Download (PDF)</a>	
		3X Standard Hardener		200 cP	1 hour	72 °C		
		3X Slow Hardener		200 cP	4 hours	74 °C		
		3X Extra-slow Hardener		150 cP	10 ½ hours	64 °C		
		PRIME™ High Tg Hardener	100 : 25	500 cP	5 hours	110 °C		
LAMINATING SYSTEMS	<b>Ampreg™ 30 Resin</b> Low initial mixed viscosity & good cure progression from ambient only cures, DNV Certified, Replaces Ampreg™ 21  • DNV-GL <a href="#">Download (PDF)</a> • Lloyd's Register <a href="#">Download (PDF)</a>	3X Fast Hardener	100 : 26	900 cP	½ hour	74 °C	 <a href="#">Download (PDF)</a>	
		3X Standard Hardener		750 cP	1 hour	73 °C		
		3X Slow Hardener		350 cP	4 hours	71 °C		
		3X Extra-slow Hardener		300 cP	7 hours	70 °C		
		3X Ultra-Slow Hardener	100 : 29	300 cP	9 ¾ hours	66 °C		<a href="#">Download (PDF)</a>
		3X High Tg Hardener	100 : 29	825 cP	8 ½ hours	76 °C		<a href="#">Download (PDF)</a>
	<b>Ampreg™ 31 Resin</b> Viscosity optimised for good fabric wet-out and drainage resistance, Replaces Ampreg™ 22.  3 <sup>rd</sup> party certified: • DNV-GL <a href="#">Download (PDF)</a> • Lloyd's Register <a href="#">Download (PDF)</a>	3X Fast Hardener	100 : 26	1300 cP	½ hour	76 °C	 <a href="#">Download (PDF)</a>	
		3X Standard Hardener		1000 cP	1 hour	73 °C		
		3X Slow Hardener		500 cP	3 ½ hours	73 °C		
		3X Extra-slow Hardener		400 cP	6 hours	72 °C		
		3X Ultra-Slow Hardener	100 : 29	375 cP	7 ¾ hours	66 °C		<a href="#">Download (PDF)</a>
		3X High Tg Hardener	100 : 28	1100 cP	5 ¾ hours	77 °C		<a href="#">Download (PDF)</a>
	<b>Ampreg™ 36 Resin</b> Improved fabric impregnation, Faster mechanical property generation, High flexural properties, Replaces Ampreg™ 26	3X Fast Hardener	100 : 29	700 cP	½ hour	75 °C	 <a href="#">Download (PDF)</a>	
		3X Standard Hardener		450 cP	1 hour	73 °C		
		3X Slow Hardener		275 cP	3 ½ hours	70 °C		
3X Extra-slow Hardener		200 cP		6 hours	69 °C			
SPECIALITY SYSTEMS	<b>Ampreg™ 21FR Resin</b> Fire retardant epoxy wet laminating system, with indicative FST performance evaluated FAR Part 25 (60s flame applied).	3X Fast Hardener	100 : 17	-	½ hour	-	 <a href="#">Download (PDF)</a>	
		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		
	<b>Ampreg™ 3X AP Resin</b> Improves vinylester/epoxy adhesion & to enable use of polyester gelcoats.	3X Slow Hardener	100 : 26	600 cP	3-4 hours	66.7	 <a href="#">Download (PDF)</a>	
		3X Extra-slow Hardener		500 cP	6-7 hours	63.2		
	<b>Ampreg™ 3X F230-2 Resin</b> Foaming epoxy, 150– 300kg/m <sup>3</sup>	3X Slow Hardener	100 : 22	600 cP	1 hour	-	 <a href="#">Download (PDF)</a>	
	<b>Ampreg™ TP Resin</b> 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	-	 <a href="#">Download (PDF)</a>	
		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 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.

## AMPREG 3X SYSTEMS CODE SELECTOR

Packs	Size	Units	Description	MOQ (Each)	Order Code	Notes
PRIME 37	4	Kg	PRIME37 R/H FAST 4KG PACK	10	F160-122	
	4	Kg	PRIME37 R/H STANDARD 4KG PACK	10	F160-123	
	4	Kg	PRIME37 R/H SLOW 4KG PACK	10	F160-108	
	4	Kg	PRIME37 R/H EXTRA-SLOW 4KG PACK	10	F160-109	
Ampreg 30	1.26	kg	AMPREG30 R/H FAST 1.26KG PACK	10	F127-035	
	4.66	kg	AMPREG30 R/H FAST 4.66KG PACK	10	F127-034	
	1.26	kg	AMPREG30 R/H STANDARD 1.26KG PACK	10	F127-037	
	4.66	kg	AMPREG30 R/H STANDARD 4.66KG PACK	10	F127-036	
	1.26	kg	AMPREG30 R/H SLOW 1.26KG PACK	10	F127-039	
	4.66	kg	AMPREG30 R/H SLOW 4.66KG PACK	10	F127-038	
	1.26	kg	AMPREG30 R/H EXTRA-SLOW 1.26KG PACK	10	F127-041	
	4.66	kg	AMPREG30 R/H EXTRA-SLOW 4.66KG PACK	10	F127-040	
Ampreg 31	1.26	kg	AMPREG31 R/H FAST 1.26KG PACK	10	F127-071	
	4.66	kg	AMPREG31 R/H FAST 4.66KG PACK	10	F127-072	
	1.26	kg	AMPREG31 R/H STANDARD 1.26KG PACK	10	F127-075	
	4.66	kg	AMPREG31 R/H STANDARD 4.66KG PACK	10	F127-076	
	1.26	kg	AMPREG31 R/H SLOW 1.26KG PACK	10	F127-073	
	4.66	kg	AMPREG31 R/H SLOW 4.66KG PACK	10	F127-074	
	1.26	kg	AMPREG31 R/H EXTRA-SLOW 1.26KG PACK	10	F127-069	
	4.66	kg	AMPREG31 R/H EXTRA-SLOW 4.66KG PACK	10	F127-070	
Ampreg 36	1.16	kg	AMPREG36 R/H FAST 1.16KG PACK	10	F127-083	
	4.26	kg	AMPREG36 R/H FAST 4.26KG PACK	10	F127-084	
	1.16	kg	AMPREG36 R/H STANDARD 1.16KG PACK	10	F127-087	
	4.26	kg	AMPREG36 R/H STANDARD 4.26KG PACK	10	F127-088	
	1.16	kg	AMPREG36 R/H SLOW 1.16KG PACK	10	F127-085	
	4.26	kg	AMPREG36 R/H SLOW 4.26KG PACK	10	F127-086	
	1.16	kg	AMPREG36 R/H EXTRA-SLOW 1.16KG PACK	10	F127-081	
	4.26	kg	AMPREG36 R/H EXTRA-SLOW 4.26KG PACK	10	F127-082	
<b>Resins</b>						
PRIME 37	1000	Kg	PRIME37 RESIN 1000KG	1	F160-105	
	197	Kg	PRIME37 RESIN 197KG	3	F160-106	
	16.2	Kg	PRIME37 RESIN 16.2KG A/F	6	F160-115	
Ampreg 30	1000	kg	AMPREG30 RESIN 1000KG	1	F127-001	
	219	kg	AMPREG30 RESIN 219KG	1	F127-002	
	18	kg	AMPREG30 RESIN 18KG	6	F127-003	
Ampreg 31	1000	kg	AMPREG31 RESIN 1000KG	1	F127-077	
	219	kg	AMPREG31 RESIN 219KG	1	F127-079	
	18	kg	AMPREG31 RESIN 18KG	6	F127-078	
Ampreg 36	900	kg	AMPREG36 RESIN 900KG	1	F127-096	
	197	kg	AMPREG36 RESIN 197KG	1	F127-090	
	16.2	kg	AMPREG36 RESIN 16.2KG	6	F127-089	
Ampreg 21FR	257	kg	AMPREG 21FR RESIN 257KG	2	F122-005	
	15.85	kg	AMPREG 21FR RESIN 15.85KG	6	F122-004	
Adh. Promoter	20	kg	AMPREG3X ADHESION PROMOTER 20KG A/F	5	F127-117	
Foaming Epoxy	21.3	kg	AMPREG F230-2 RESIN 21.3KG	1	F113-013	
	4.36	kg	AMPREG F230-2 RESIN 4.36KG	1	F113-012	
Thix. Pregel	195	kg	AMPREG3X THIXOTROPIC PREGEL 195KG	1	F127-092	
	19.5	kg	AMPREG3X THIXOTROPIC PREGEL 19.5KG	6	F127-091	

Hardeners	Size	Units	Description	MOQ (Each)	Order Code	Notes
Fast	900	kg	AMPREG3X HARD FAST 900KG	1	F127-093	
	174	kg	AMPREG3X HARD FAST 174KG	1	F127-006	
	19	kg	AMPREG3X HARD FAST 19KG A/F	1	F127-008	
	4.68	kg	AMPREG3X HARD FAST 4.68KG A/F	1	F127-010	
Standard	900	kg	AMPREG3X HARD STANDARD 900KG	1	F127-097	
	174	kg	AMPREG3X HARD STANDARD 174KG	1	F127-013	
	19	kg	AMPREG3X HARD STANDARD 19KG A/F	1	F127-015	
	4.68	kg	AMPREG3X HARD STANDARD 4.68KG A/F	1	F127-017	
Slow	900	kg	AMPREG3X HARD SLOW 900KG	1	F127-098	
	174	kg	AMPREG3X HARD SLOW 174KG	1	F127-020	
	19	kg	AMPREG3X HARD SLOW 19KG A/F	1	F127-022	
	4.68	kg	AMPREG3X HARD SLOW 4.68KG A/F	1	F127-024	
Extra-slow	900	kg	AMPREG3X HARD EXTRA-SLOW 900KG	1	F127-094	
	174	kg	AMPREG3X HARD EXTRA-SLOW 174KG	1	F127-027	
	19	kg	AMPREG3X HARD EXTRA-SLOW 19KG A/F	1	F127-029	
	4.68	kg	AMPREG3X HARD EXTRA-SLOW 4.68KG A/F	1	F127-031	
PRIME High Tg	900	kg	PRIME HIGH Tg HARDENER 900KG	1	F160-116	Only to be used with PRIME 37 resin
	167	kg	PRIME HIGH Tg HARDENER 167KG	1	F160-120	
	16.4	kg	PRIME HIGH Tg HARDENER 16.4KG A/F		F160-119	
	4.1	kg	PRIME HIGH Tg HARDENER 4.1KG A/F	1	F160-121	
Ampreg 3X High Tg	194	kg	AMPREG3X HIGH Tg HARDENER 194KG	1	F127-066	Only to be used with Ampreg resins
	16	kg	AMPREG3X HIGH Tg HARDENER 16KG A/F	1	F127-113	
	5.22	kg	AMPREG3X HIGH Tg HARDENER 5.22KG A/F	1	F127-095	
Ampreg 30/31 Ultra-Slow	194	kg	AMPREG30/31 HARD ULTRA-SLOW 194KG	1	F127-107	Only to be used with Ampreg 30 or 31 resins
	16	kg	AMPREG30/31 HARD ULTRA-SLOW 16KG A/F	1	F127-108	
	5.22	kg	AMPREG30/31 HARD ULTRA-SLOW 5.22KG A/F	1	F127-109	
Ampreg F230-2	4.88	kg	AMPREG F230-2 H/FA SLOW 4.88KG PACK A/F	10	F113-011	Pack contains hardener and foaming agent
	0.2	kg	AMPREG F230-2 FOAMING AGENT 0.2KG	1	FY8912-30	

Ampreg™ and PRIME™ resins and hardeners are compatible with the following dispense taps:

Description	16 – 19 kg Resins	160 – 200 kg Resins	4 – 19 kg Hardeners	160 – 200 kg Hardeners
Dispense Tap	K342-016	K342-010	K342-016	K342-010

Note that relative ordering quantities are as follows:

SYSTEM	RESIN	HARDENER
PRIME™ 37	3 x 1000kg PRIME™ 37 Resin	1 x 900kg Ampreg™ 3X Fast / Standard / Slow / Ex-slow Hardener
	2 x 1000kg PRIME™ 37 Resin	3 x 174kg Ampreg™ 3X Fast / Standard / Slow / Ex-slow Hardener
	2 x 1000kg PRIME™ 37 Resin	3 x 167kg PRIME™ High Tg Hardener
	1 x 167kg PRIME™ 37 Resin	3 x 19kg Ampreg™ 3X Fast / Standard / Slow / Ex-slow Hardener
	1 x 167kg PRIME™ 37 Resin	3 x 16.4kg PRIME™ High Tg Hardener
	1 x 18.6kg PRIME™ 37 Resin	1 x 4.68kg Ampreg™ 3X Fast / Standard / Slow / Ex-slow Hardener
	1 x 18.6kg PRIME™ 37 Resin	1 x 4.1kg PRIME™ High Tg Hardener
	Ampreg™ 30 / 31	2 x 1000kg Ampreg™ 30 / 31 Resin
2 x 1000kg Ampreg™ 30 / 31 Resin		3 x 194kg Ampreg™ 3X High Tg Hardener
1 x 219kg Ampreg™ 30 / 31 Resin		3 x 19kg Ampreg™ 3X Fast – Ex-Slow Hardeners
1 x 219kg Ampreg™ 30 / 31 Resin		4 x 16.2kg Ampreg™ 3X High Tg Hardener
1 x 18kg Ampreg™ 30 / 31 Resin		1 x 4.68kg Ampreg™ 3X Fast – Ex-Slow Hardeners
1 x 18kg Ampreg™ 30 / 31 Resin		1 x 5.22kg Ampreg™ 3X High Tg Hardener
Ampreg™ 36	2 x 900kg Ampreg™ 36 Resin	3 x 174kg Ampreg™ 3X Fast – Ex-Slow Hardeners
	1 x 197kg Ampreg™ 36 Resin	3 x 19kg Ampreg™ 3X Fast – Ex-Slow Hardeners
	1 x 16.2kg Ampreg™ 36 Resin	1 x 4.68kg Ampreg™ 3X Fast – Ex-Slow Hardeners

For guidance on correct ordering quantities for speciality systems, please refer to the product datasheet or contact the Gurit technical support team.

## NOTICE

All advice, instruction or recommendation is given in good faith but the selling Gurit entity (the Company) only warrants that advice in writing is given with reasonable skill and care. No further duty or responsibility is accepted by the Company. All advice is given subject to the terms and conditions of sale (the Conditions) which are available on request from the Company or may be viewed at Gurit's Website: [www.gurit.com/terms-and-conditions.aspx](http://www.gurit.com/terms-and-conditions.aspx)

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:

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Email [technical.support@gurit.com](mailto:technical.support@gurit.com)

## 24-HOUR CHEMICAL EMERGENCY NUMBER

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

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Americas +1 646 844 7309  
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