



TECHNICAL SYSTEM DESCRIPTION

A-Pox 3000 & B-Cure 50 Series



Mix ratio 100:50

Rapallo A-POX 3000H & B-cure 50 system is an ambient temperature curing , solvent free , hand layup/ manual application epoxy resin system. **Rapallo A-POX 3000H & B-cure 50 system** IS based on a Bisphenol A/F epoxy that is modified for lower Viscosity and Amine based curing agents .**Rapallo A-POX 3000H & B-cure 50 system** has special thixotropic additives making it ideal for vertical surface lamination . **Rapallo A-POX 3000H & B-cure 50 system** has good mechanical strength and chemical resistance. **Rapallo A-POX 3000H & B-cure 50 system** is additive modified for lower surface tension improving the wet out properties into Glass Fibre and Carbon fibre. **Rapallo A-Pox 3000H** is strengthened with copolymer additives making this an all-round performer in manual or hand layup applications for pipe wrapping , hand lay up or filament winding where increased adhesion and impact strength is demanded in a manual application environment..

Mixed System & Mechanical Properties: *Mixed with A-Pox 3000 series cured 12h / 50gr.C

Parameters	A-POX 3000H	B-Cure 50 Fast	B-cure 50 Medium (RINA)	B-cure 50 SLOW (RINA)
Mix Ratio (Weight)	100	50	50	50
Tg Onset (°C)*		51-55 (200g @ 23 °C)	51-55 (200g @ 23 °C)	51-55 (200g @ 23 °C)
Equivalent Weight (g/eq)	170-180		?	?
Viscosity mPas @ 23 °C	2700-3600	? Mixed Values)	? Mixed Values)	400-700 Mixed Values)
Density (g/cm³) @ 23 °C	1,13-1,15	(? Mixed Values)	? Mixed Values)	? Mixed Values)
Pot life @ 23 °C 200G sample		20 - 25 Minutes	55 - 75 Minutes	130 - 160 Minutes
Tensile Modulus mPs *		2994 *	3007 *	+
Tensile strength (MPa)		60,8 *	69,49 *	+
Elongation at break (%)		?	?	+
3 Point bending - mPa		97 *	105,4 *	+
3 Point bending Modulus -mPa		2730 *	3022 *	+



Technical Data Sheet

A-Pox 3000H



Rapallo A-POX 3000H is a solvent free , hand layup epoxy resin , based on a Bisphenol A and Bisphenol F epoxy that are modified for lower Viscosity. **Rapallo A-Pox 3000H** has special thixotropic additives making it ideal for vertical surface lamination .

Rapallo A-Pox 3000H epoxy has good mechanical strength and chemical resistance. **Rapallo A-Pox 3000H** has good resistance against crystallisation, and it can be stored at ambient temperature at least 12 months. **Rapallo A-Pox 3000H** is additive modified for lower surface tension improving the wet out properties into Glass Fibre and Carbon fibre. **Rapallo A-Pox 3000H** is strengthened with copolymer additives making this an all-round performer in manual or hand layup applications for pipe wrapping , hand lay up or filament winding where increased adhesion and impact strength is demanded in a manual application environment.

Typical applications : **Rapallo A-POX 3000H** is developed to be used in conjunction with **Rapallo B-Cure B50 Series & Rapallo B CURE 32** (see system description)

Viscosity	2700-3600 Mpas (mPas /25 °C)
Density	1,13-1,15 g/cm ³
EEW:	170-180 g/eq
Colour:	Whitish
	All data are approximate values.

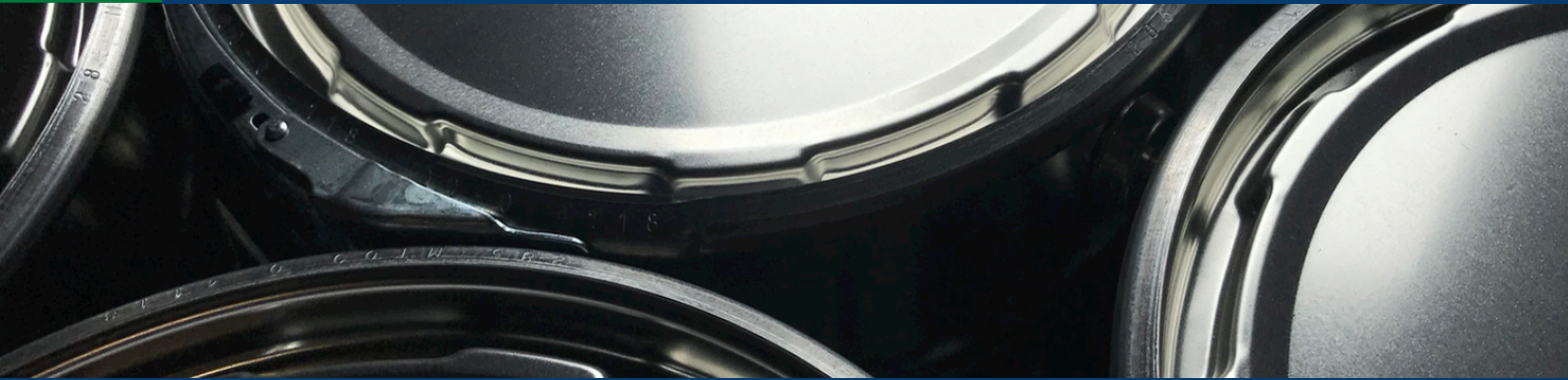
Storage	Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging
	Rapallo A-Pox 3000H can be stored for a minimum of 24 months in sealed airtight steel container.

Rapallo A-Pox 3000H does not crystallise.

Supply	Rapallo A-Pox 3000H is a standard product, that is supplied in different packaging of 20 kg, 200 kg and 1000 kg.
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Orders are normally shipped within 24 hours.Notes:

This information and data is believed to be accurate and reliable. Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of this date, Rapallo makes no representations as to the completeness or accuracy hereof. We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.



Technical Data Sheet



B-Cure 50 Fast

Mix Ratio : 100 : 50

Rapallo B-Cure 50 Fast is an amine based curing agent developed for all-round purpose usage curing at room temperature. **Rapallo B-Cure 50 Fast** has a **20-25 minute** pot-life when cured at 23 °C

Rapallo B-Cure 50 Fast fast has a clear glossy surface when cured.

Rapallo B-Cure 50 Fast shows good adhesion to surfaces as stone, metal, fibreglass, carbon fibre etc

Rapallo B-Cure 50 Fast High mechanical strength and toughness.

As with all 2-K system will strength and stiffness be increased with a moderate post-cure of 40-50 °C for 6-12h.

It is recommended to be used with epoxy system such as **Rapallo A-Pox 3000** , **Rapallo A-Pox 8000** or **Rapallo A-Pox 1200**.

Viscosity	50-150 (MPas /25 °C)
Density	0,97-0,99 g/cm ³
EEW:	80-95 g/eq
Colour:	Clear
Potlife :	20-25 Min (200g @ 23 °C)
	All data are approximate values.

Storage	Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging
	Rapallo B-Cure 50 Fast can be stored for a minimum of 24 months in sealed airtight steel container.

Rapallo B-Cure 50 Fast does not crystallise.

Supply	Rapallo B-Cure 50 Fast is a standard product, that is supplied in different packaging of 20 kg, 200 kg and 1000 kg.
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Technical Data Sheet



B-Cure 50 Medium (RINA Accredited)

Mix Ratio : 100 : 50

Rapallo B-Cure 50 Medium is an amine based curing agent developed for all-round purpose usage curing at room temperature. **Rapallo B-Cure 50 Medium** has a **55-75 minute** pot-life when cured at 23 °C

Rapallo B-Cure 50 Medium fast has a clear glossy surface when cured.

Rapallo B-Cure 50 Medium shows good adhesion to surfaces as stone, metal, fibreglass, carbon fibre etc

Rapallo B-Cure 50 Medium High mechanical strength and toughness.

As with all 2-K system will strength and stiffness be increased with a moderate post-cure of 40-50 °C for 6-12h.

It is recommended to be used with epoxy system such as **Rapallo A-Pox 3000** , **Rapallo A-Pox 8000** or **Rapallo A-Pox 1200**.

Viscosity	100-400 (MPas /25 °C)
Density	0,97-0,99 g/cm ³
EEW:	80-95 g/eq
Colour:	Clear
Potlife :	55-75 Min (200g @ 23 °C)
	All data are approximate values.

Storage	Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging
	Rapallo B-Cure 50 Medium can be stored for a minimum of 24 months in sealed airtight steel container.

Rapallo B-Cure 50 Medium does not crystallise.

Supply	Rapallo B-Cure 50 Medium is a standard product, that is supplied in different packaging of 20 kg, 200 kg and 1000 kg.
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Technical Data Sheet



B-Cure 50 Slow

Mix Ratio : 100 : 50

Rapallo B-Cure 50 Slow is an amine based curing agent developed for all-round purpose usage curing at room temperature. **Rapallo B-Cure 50 Slow** has a **130-160 minute** pot-life when cured at 23 °C

Rapallo B-Cure 50 Slow fast has a clear glossy surface when cured.

Rapallo B-Cure 50 Slow shows good adhesion to surfaces as stone, metal, fibreglass, carbon fibre etc

Rapallo B-Cure 50 Slow High mechanical strength and toughness.

As with all 2-K system will strength and stiffness be increased with a moderate post-cure of 40-50 °C for 6-12h.

It is recommended to be used with epoxy system such as **Rapallo A-Pox 3000** , **Rapallo A-Pox 8000** or **Rapallo A-Pox 1200**.

Viscosity	30-80 (MPas /25 °C)
Density	0,97-0,99 g/cm ³
EEW:	87-93 g/eq
Colour:	Clear to slight yellow
Potlife :	130-160 Min (200g @ 23 °C)
	All data are approximate values.

Storage	Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging
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Rapallo B-Cure 50 Slow can be stored for a minimum of 24 months in sealed airtight steel container.

Rapallo B-Cure 50 Slow does not crystallise.

Supply	Rapallo B-Cure 50 Slow is a standard product, that is supplied in different packaging of 20 kg, 200 kg and 1000 kg.
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About Us

Rapollo Resins Aps of Danmark was established in 2003 by Axel Liebman.

Rapollo resins Aps has specialist know how in Formulation and manufacturing of custom specific epoxy resins, and other Polymer type resin systems.

With core focus at continuous development of our resins designs we are always at the forefront of emerging technology demands for epoxy and have a strong reputation with out clients of know how in the sectors we service.

Rapollo resins Aps with over 50 years combined experience in Vacuum infusion process from some of the leading wind turbine and shipyard worldwide .

Rapollo resins Aps facilitates professional technical engineering of both Process resins and Process technology related to the composite markets worldwide .

Rapollo resins Aps is rich in practical working know-how and together with over 16 years of designing and manufacturing Epoxy resins systems for :

- Wind Energy
- Marine
- Surface coatings
- Construction
- Cure in Place pipe rehabilitation
- Corrosion protection

Rapollo resins Aps offer best in class solutions from our laboratories that are populated with experienced engineers with practical working know how and testing technology to provide the right levels of accuracy to our clients.

Balsa wood from equator is part of our range of products , being widely used as a strong and cost-effective core material in composites is yet a part of our business

Vacuum infusion of composites and supply of consumables completes the third area of the company.



Company Contacts

Axel Liebmann
Sales / Purchases
+45 23 48 56 79
info@rapollo.dk

Vinod Talpada
R&D / Laboratory
+45 31 31 76 80
vinod@rapollo.dk

Jørgen Peter Iversen
Warehouse
mobil: 81 10 94 02
jpi@rapollo.dk

Bettina Bundesen
Bookkeeping
account@rapollo.dk



Rapollo Resins Aps

Skomagervej 5A
7100 Vejle
Danmark

info@rapollo.dk

VAT: 28 89 24 70

www.rapollo.dk