



TECHNICAL SYSTEM DESCRIPTION

A-Pox Clear Coat



Mix ratio 100:50

Rapollo A-Pox clear coat is a 2k epoxy system, developed for clear coatings of surfaces and casting of objects where a water clear, void free finish is demanded.

The system It is based on a BPA/F resins and amine based B component .

Rapollo A-Pox Clear-coat A is modified for better adhesion, penetration and wetting properties and ease of mixing .

Rapollo B-Cure Clear-coat 50B component is amine based curing agent modified for controlling the exotherm and UV stability maintaining a glossy surface.

System exhibits very good release of air and is water-clear.

System is made for castings up to 4-5cm of thickness made at room-temperature.

Its long pot life of 1,5-2 hours gives good processing time , and can usually be de moulded after 24h.

Full strength after 4-5 days at room temp , **Scratch resistance** can be improved by post curing at 40 °C / 8h.

Degassing is recommended in order to achieve a void free resin prior to casting.

System & Mechanical Properties:

Parameters	Clear Coat A	Clear Coat B	Mix properties
Mix Ratio (Weight)	100	50	100:50
Equivalent Weight (g/eq)	180 to 190	90 to 95	
Viscosity @ 23 C @ 23 °C	1600 - 1800 cps	100 - 200 cps	600 - 700 cps
Density (g/cm³)	1,12-1,15	0,97-0,99	xx
Pot life @ 23 °C 200G sample			80 - 100 minutes
Peak Temperature (C) (For 23 °C – 200g)			135 C
Tg (°C)*			61,61 C – 63,49 C
Tensile strength (MPa)			xx
Elongation at break (%)			xx
Hardness Shore D*			+ 82 shore D

* After 48 hours(with 4 cm thickness sample)



Technical data Sheet

A-Pox Clear-coat

Solvent free epoxy resin, consisting of a mixture of Bisphenol A, Bisphenol F and additives for improved wetting, degassing and clarity.

Rapallo A-Pox Clear-coat A has a low viscosity and does not crystallise at ambient temperatures.

Rapallo A-Pox Clear-coat A can be used for a number of applications, where the choice of hardener is the deciding factor for the process as well as the mechanical and chemical properties for the finished product.

Rapallo A-Pox Clear-coat A is used in the composites industry e.g. Clear Coat or casting resin.

Rapallo A-Pox Clear-coat A is compatible with **Rapallo B-Cure ClearCoat 50B**

Rapallo A-Pox Clear-coat A can be used when good penetration and wetting is demanded in a water clear casting or clear coating application .

Viscosity	1600 - 1800 Mpas
Density	1,12-1,15 g/cm ³
EEW:	180 to 190g/eq
Colour:	Watercolour
All data are approximate values.	

Storage

Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging

Rapallo A-Pox Clear-coat A can be stored for a minimum of 24 months in sealed airtight steel container.

Rapallo A-Pox Clear-coat A does not crystallise.

Supply

Rapallo A-Pox Clear-coat A is a standard product, that supplied in different packaging of 20 kg, 200 kg and 1000 kg.

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 Clear-coat 50B

Rapollo B-Cure Clear-coat 50B component is amine based curing agent modified for controlling the exotherm and UV stability maintaining a glossy surface.

Rapollo B-Cure Clear-coat 50B is water clear

Viscosity	100 - 200 Mpas
Density	0,97-0,99 g/cm ³
EEW:	90 to 95g/eq
Colour:	Clear

Storage Must be stored at ambient temperatures excluded from direct sunlight. In airtight packaging,

Rapollo B-Cure Clear-coat 50B can be stored for a minimum of 24 months in sealed airtight steel container.

Rapollo B-Cure Clear-coat 50B does not crystallise.

Supply **Rapollo B-Cure Clear-coat 50B** is a standard product, that is supplied in different packaging of 18 kg, 180 kg and 900 kg.

Orders are normally shipped within 24 hours.

Notes:

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About Us

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

Rapallo 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.

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

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

Rapallo 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

Rapallo 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.



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