



résoltech

ADVANCED TECHNOLOGY RESINS

RESOLTECH MARINE RANGE



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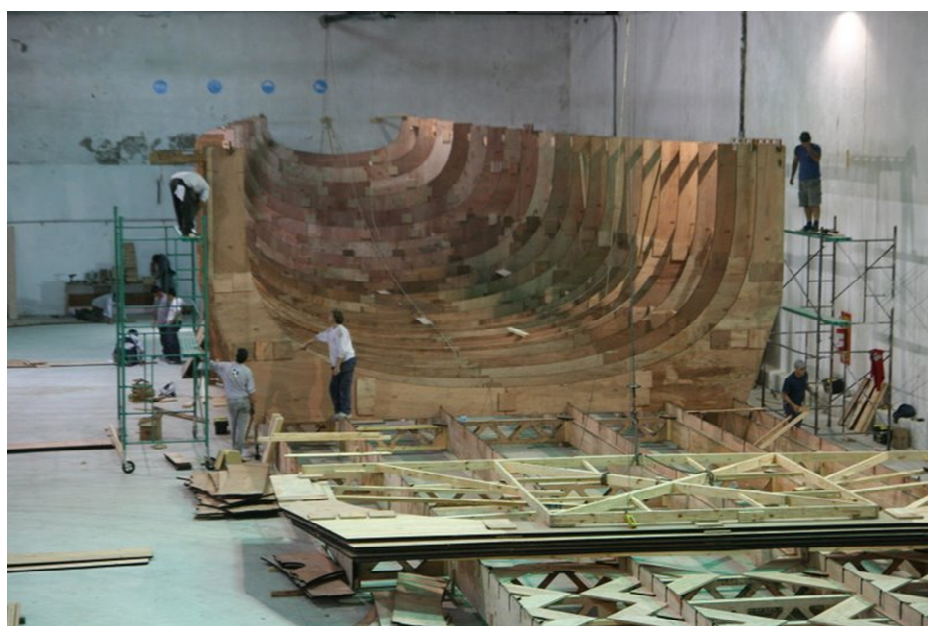
TOOLING PRODUCTS

Plugs & Models

Reference	Description	Key properties	Page
1040T	High performance thixotropic epoxy laminating system.	Easy to use non sag laminating system with excellent wettability.	3
8020 EX	Epoxy fairing filler.	Room temperature curing – next day sanding and ultra fast hardener enables sanding within 3 hours.	11
8030	Epoxy profiling lightweight filler.	Easy application: Non sag application up to 40 mm thickness @ 20°C. Room temperature curing.	11
3010T	Epoxy surfacing highbuild.	Easy application: Ultra long pot life, but fast hardening when applied. Touch dry in 2h30 sandable in 8h.	11

Moulds

Reference	Description	Key properties	Page
VI5090	Vinylester gel coat compatible epoxy.	Good chemical resistance. All RAL colours available.	5
1040T	High performance epoxy laminating system.	Easy to use laminating system with excellent wettability and Tg up to 144° C.	3
1050	Structural lamination and infusion epoxy system.	Adjustable pot life from 10 h to 15 min. Room temperature cure for large moulds.	3
1800	Structural Epoxy system for infusion.	130°C TG Ideal for moulds for prepreg boats.	4



WOOD EPOXY BOATS PRODUCTS

Reference	Description	Key properties	Page
1010	Water based epoxy varnish and primer.	No smell interior varnish, best self leveling	12
1020 (T)	Structural epoxy resin system.	Excellent wettability. Adjustable pot life.	3
1030H	High performance clear varnish.	High UV resistance, good elongation.	12
2040G	Structural adhesive epoxy for wood bonding and structural fillet joints.	Excellent mechanical properties. Easy sanding.	9

COMPOSITE BOATS PRODUCTS

Resin Systems

Reference	Description	Key properties	Page
1040 (T)	High performance epoxy laminating system.	Easy to use laminating system with excellent wet-tability and Tg up to 144° C. High rigidity system.	3
1050 (T)	Lamination and infusion epoxy system for large boats that cannot be post-cured.	Best room temperature system available in the market. Adjustable pot life from 10 h to 15 min.	3
1070	Clear Epoxy laminating system.	Ease of use, room temperature curing, self levelling Excellent UV resistance. Ideal for carbon look parts.	4
1080	Highest performance epoxy laminating system.	Enable mould release at room temperature and post-curing outside mould. Highest rigidity system.	4
1800	Lowest viscosity epoxy system for infusion.	Tg from 85° C to 130° C. Fast curing system.	4

Gel Coats—Top Coats

Reference	Description	Key properties	Page
VI5090	Vinylester gel coat compatible epoxy.	Good chemical resistance. Good UV resistance.	5
2010FGCS	Self extinguishing epoxy gelcoat.	Self extinguishing coating. High UV resistance.	5
2010 FCI	Epoxy self-leveling deck coating.	Self extinguishing and self-leveling casting system.	5
7060S	UV resistant epoxy gel coat.	Good UV and scratch resistance.	5
7080HC	Epoxy gelcoat for fuel tanks.	High chemical resistance to fuels and hydrocarbons.	6
4030W	Water based epoxy paint system.	No smell application. High mechanical resistance.	6
4070AL	Food grade certified epoxy coating.	Drinking and grey water tanks.	6

Adhesives

Reference	Description	Key properties	Page
3040	Cold cure epoxy adhesive paste.	Fast curing for radiuses up to 20 mm.	9
3050CT	Structural epoxy adhesive.	High performance epoxy adhesive.	9
3350	Secondary lamination adhesion promoter.	Enables to coat cured composite surfaces before doing secondary laminations.	10
3500	Epoxy adhesive for bonding materials with different dilation coefficient ratios.	40 % elongation until break for teak decks.	9
3500HP	Low density epoxy adhesive paste.	0,7 Density for all core materials bonding.	10
RE3300-DE3300	Underwater curing epoxy system.	Applicable in high humidity conditions above & underwater.	10

Fillers

Reference	Description	Key properties	Page
8020 EX	Epoxy fairing & finishing filler	Non sag application up to 2 mm thickness @ 20°C.	11
8030	Epoxy profiling lightweight filler	Non sag application up to 40 mm thickness @ 20°C.	11

RESIN SYSTEMS

RESOLTECH 1020

Hardeners 1023 to 1029

Structural epoxy resin system for wood

- Adjustable pot life from 15mn to 9 hours
- Excellent wood wettability
- Excellent crosslinking at room temperature for all applications with no postcure
- Little sensitivity to humidity during application
- Available in thixotropic version (1020T)
- Good elongation
- With 1029S hardener extra fast curing at low temperatures



RESOLTECH 1040

Hardeners 1045 to 1048N

High Performance Epoxy Laminating System

- Easy to use system: hardeners slow and fast (1045N, 1048N)
- Excellent wettability
- Room temperature cure & mould release
- TG up to 97° C with 1045N and 1048N
- TG up to 144° C with SL and HT hardeners



RESOLTECH 1050

Hardeners 1053 to 1059

Structural Lamination and Infusion Epoxy System

- Adjustable pot life from 10 h to 15 min
- Room temperature cure & mould release
- Final TG above 75°C
- Best large parts infusion resin with 1053 hardener
- Excellent vibration and fatigue properties
- Best wettability of all resins



RESOLTECH 1070S

Hardener 1074

Clear epoxy laminating system

- Clear laminates and topcoats
- Ease of use, room temperature curing, self levelling
- Excellent UV resistance
- Can be top coated with polyester without inhibition
- Makes Hexcel TF970 silicone glass totally transparent



RESOLTECH 1080

Hardener 1082, 1084, 1086

Highest performance epoxy laminating system

- Laminates with Tg up to 110° C
- Enable mould release at room temperature and post-curing outside mould while obtaining a TG of 110° C
- Highest modulus resin available (4000 Mpa·s)
- Pure Novolac for high chemical resistance
- High toughness
- Enables to build the lightest—most rigid parts



RESOLTECH 1800

Hardeners 1805 & 1808

Structural Epoxy system for infusion & injection

- Adjustable pot life from 50min to 2h
- Ultra low viscosity and high wetting power
- TG: 85° to 130° depending on hardener used
- Excellent cross linking properties even at low post-curing temperatures
- Lowest viscosity infusion resin available
- Very fast demoulding schedules with 1808 hardener for light craft fast output production



GEL COAT SYSTEMS

RESOLTECH VI5090

Vinylester Gelcoat Compatible Epoxy

- Excellent adhesion with epoxy wet lay up or infused
- Good chemical resistance
- Good UV resistance
- Easy to apply
- May be used for both moulds and parts, clear or any RAL colour



RESOLCOAT 2010FGCS

Hardener 2014FGCT

Self extinguishing epoxy gel coat—topcoat

- Self-extinguishing epoxy that complies with marine, aerospace & building industry standards.
- High quality high gloss finish
- Good UV resistance
- Available in all RAL colours



RESOLCOAT 2010FCI

Hardener 2015

Epoxy self-leveling deck coating

- Self-extinguishing epoxy that complies with marine, aerospace & building industry standards: MSC.61 (67), IMO A.653 (16), SOLAS 2000 (II-2/3.8, II-2/34 & II/49)
- Self leveling
- Good corrosion resistance



RESOLCOAT 7060 (S)

Hardener 7064

UV Resistant Epoxy GELCOAT

- Good UV resistance
- Room temperature cure
- Clear or colored versions
- Recommended for all carbon aspect parts



RESOLCOAT 7080HC

Hardener 7086HC

Epoxy gelcoat & topcoat for fuel tanks

- High chemical resistance to all fuels and hydrocarbons.
- High modulus & mechanical properties
- $T_g > 90^\circ \text{C}$



RESOLCOAT 4070AL

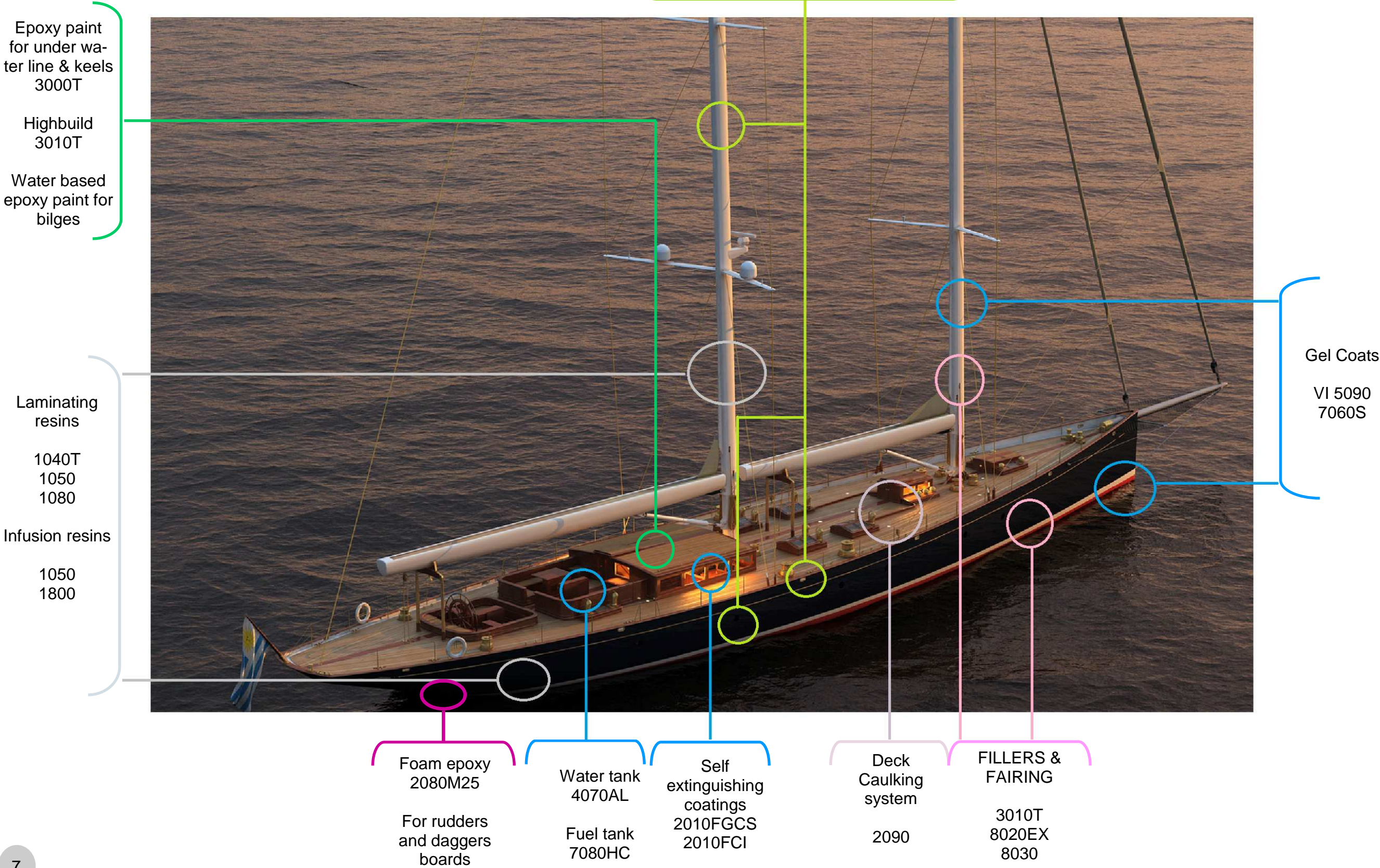
Hardener 4078

Food grade certified epoxy coating

- Fast hardening in film
- Excellent chemical resistance
- For drinking water and grey water tanks



APPLICATIONS FOR RESOLTECH PRODUCTS



ADHESIVES SYSTEMS

RESOLTECH 2040G

Hardener 2045, 2049

Structural epoxy adhesive for wood bonding & structural fillet joints

- Easy 4/1 mixing ratio by weight
- Room temperature curing
- Adjustable pot life
- Applicable in high humidity conditions
- Easy to sand



RESOLTECH 3040

Hardener 3045

Cold cure epoxy adhesive paste

- High performance adhesive
- Fast room temperature curing
- Available in carbon black colour for carbon bondings
- Fillet joints up to 22 mm



RESOLTECH 3050C & 3050CT

Hardener 3054C & 3054CT

Structural Epoxy Adhesive

- Structural epoxy adhesive for most demanding applications
- Room temperature curing.
- 1/1 mixing ration in volume.
- Thixotropic version, 3050CT available for non-sag vertical surface applications.



RESOLTECH 3500

Hardener 3506, 3507, 3508

Epoxy adhesive for bonding materials with different dilation coefficient ratios

- 40% Elongation until break properties
- Excellent application characteristics (low viscosity, high tixotropy).
- Adjustable pot life for any size applications & climates.
- Room temperature curing.
- Specially formulated for teak bonding



RESOLTECH 3350

Hardener 3358

Structural Adhesion promoter for secondary laminations

- Secondary laminations on all composite parts: prepreg, hand lamination, infused parts
- Easy to mix and apply: low viscosity and high tixotropy.
- Best used as adhesion promoter or cured composite surfaces before doing secondary laminations



RESOLTECH 3500 HP

Hardener 3508 HP

Low Density Epoxy Adhesive paste

- 0,7 Density for all core materials bonding
- High elongation properties
- Excellent application characteristics
- Long pot life for large structures
- Room temperature curing
- Superior impact resistance



RESOLTECH RE 3300

Hardener DE 3300

High Chemical resistance epoxy adhesive for above and underwater applications

- Applicable in high humidity conditions above & underwater
- High Chemical resistance
- 100:50 mixing ratio by weight or volume
- Available in standard 310 ml cartridges



FILLERS

RESOLTECH 3010T

Hardeners 3014T

Epoxy surfacing highbuild

- Easy application: Ultra long pot life, but fast hardening when applied
- May be applied by roller or sprayed
- Excellent sandability – any one who tries to sand it buys it – even 4 month after its application it stays easy to sand
- No sanding required between coats
- Touch dry in 2h30 sandable in 8h
- Excellent adhesion on all subtracts



RESOLTECH 8020EX

Hardener 8026H, 8029H

Epoxy fairing filler

- Easy Preparation: mixing ratio 1/1 by weight
- Pink resin & white hardener enable visual control of the mix
- Easy application: “creamy product” that can be applied in ultra thin layers if needed or in up to 3 mm
- Excellent sandability – any one who tries to sand it buys it
- New layer applied easily differentiated from prior layer that has lighter colour when sanded
- Room temperature curing – next day sanding with standard hardener 8026H or 3h sanding with 8029 H hardener



RESOLTECH 8030

Hardeners 8035 & 8037

Epoxy profiling lightweight filler

- Light: 0,7 Density
- Easy Preparation: mixing ratio 1/1 in volume or 2/1 by weight, dark grey resin & white hardener enable visual control of the mix
- Easy application: Non sag application up to 40 mm thickness @ 20°C
- Room temperature curing
- Good sandability, can also be milled by CNC.
- Fast & Slow hardeners available



RESOLTCOAT 1010

Hardeners 1014, 1016

Water based epoxy resin

- Mat or High gloss primer & varnish
- 1 / 1 Easy mixing ratio in Volume
- Uses water to clean brushes and rollers
- Extreme low viscosity will prime any porous material in depth
- May be applied on humid substracts

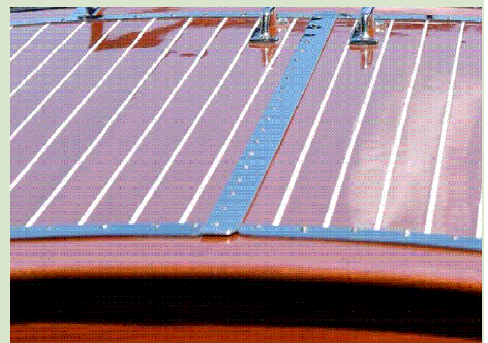


RESOLTCOAT 1030H

Hardeners 1035, 1038

Wood epoxy claer varnish system

- High performance clear varnish formulated for wood applications.
- UV resistant
- High gloss finishing
- High mechanical and chemical resistance



RESOLCOAT 4030W

Hardeners 4034W, 4036W

Water based epoxy paint system

- Ease of use of water based products, no smell application
- Excellent coverage properties
- High mechanical and chemical resistance



DECK CAULKING

RESOLTECH 2090

Hardeners 2096

Epoxy System for Wood/Deck caulking

- 1 to 1 mixing ratio by weight or volume
- No contraction, superior adhesion, high chemical resistance
- Application without primer
- Next day sandable



OSMOSIS TREATMENT

RESOLTECH 1020

Hardeners 1028L, 1029S

Osmosis treatment epoxy system

- 15mn Pot life
- Simple 2:1 mixing ratio
- Little sensitivity to humidity during application
- Available in thixotropic version (1020T)
- Specially formulated for winter and summer application



EPOXY FOAM

RESOLTECH 2080M25

Hardeners 2085

Structural Epoxy foaming system

- Densities 170, 250, 400, 600 kg/m³
- Post Curing optional
- Outstanding mechanical properties
- Available in black, white or neutral



ADDITIVES

RESOLTECH P112

- Anti slip polymer additive to be added in solvented deck & bilges paints



Resoltech is considered as one of Europe's leading epoxy resin formulator.

It was created in 1996 by a team of highly experienced people from the composite field. They focused on formulation and polymer engineering, developing over 800 systems.

Most formulations were invented in partnership with customers to fit specific applications. The creativity of Resoltech has led the company to offer a wide range of systems, while also formulating and contract manufacturing for world leading chemical companies.

It also led to the creation of very advanced polymers such as water based epoxy systems, fire resistant systems or water based pre-preg resins with Lloyds, IMO SOLAS 2000, FAR25 and Airbus certifications. The world's largest carbon epoxy yacht ever infused as of today used our 1050 infusion resin.

Low toxicity for users and environmental concerns are priorities in all Resoltech product development.

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