## RESOLTECH MARINE RANGE

### TOOLING PRODUCTS

#### Plugs & Models

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Key properties</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1040T</td>
<td>High performance thixotropic epoxy laminating system.</td>
<td>Easy to use non sag laminating system with excellent wettability.</td>
<td>3</td>
</tr>
<tr>
<td>8020 EX</td>
<td>Epoxy fairing filler.</td>
<td>Room temperature curing – next day sanding and ultra fast hardener enables sanding within 3 hours.</td>
<td>11</td>
</tr>
<tr>
<td>8030</td>
<td>Epoxy profiling lightweight filler.</td>
<td>Easy application: Non sag application up to 40 mm thickness @ 20°C. Room temperature curing.</td>
<td>11</td>
</tr>
<tr>
<td>3010T</td>
<td>Epoxy surfacing highbuild.</td>
<td>Easy application: Ultra long pot life, but fast hardening when applied.</td>
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#### Moulds

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<thead>
<tr>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>VI5090</td>
<td>Vinylester gel coat compatible epoxy.</td>
<td>Good chemical resistance. All RAL colours available.</td>
<td>5</td>
</tr>
<tr>
<td>1040T</td>
<td>High performance epoxy laminating system.</td>
<td>Easy to use laminating system with excellent wettability and Tg up to 144°C.</td>
<td>3</td>
</tr>
<tr>
<td>1050</td>
<td>Structural lamination and infusion epoxy system.</td>
<td>Adjustable pot life from 10 h to 15 min. Room temperature cure for large moulds.</td>
<td>3</td>
</tr>
<tr>
<td>1800</td>
<td>Structural Epoxy system for infusion.</td>
<td>130°C TG Ideal for moulds for prepreg boats.</td>
<td>4</td>
</tr>
</tbody>
</table>
### WOOD EPOXY BOATS PRODUCTS

<table>
<thead>
<tr>
<th>Reference</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1020 (T)</td>
<td>Structural epoxy resin system.</td>
<td>Excellent wettability. Adjustable pot life.</td>
<td>3</td>
</tr>
<tr>
<td>1030H</td>
<td>High performance clear varnish.</td>
<td>High UV resistance, good elongation.</td>
<td>12</td>
</tr>
<tr>
<td>2040G</td>
<td>Structural adhesive epoxy for wood bonding and structural fillet joints.</td>
<td>Excellent mechanical properties. Easy sanding.</td>
<td>9</td>
</tr>
<tr>
<td>1010</td>
<td>Water based epoxy varnish and primer.</td>
<td>No smell interior varnish, best self leveling</td>
<td>12</td>
</tr>
<tr>
<td>1040 (T)</td>
<td>High performance epoxy laminating system.</td>
<td>Easy to use laminating system with excellent wettability and Tg up to 144° C. High rigidity system.</td>
<td>3</td>
</tr>
<tr>
<td>1050 (T)</td>
<td>Lamination and infusion epoxy system for large boats that cannot be post-cured.</td>
<td>Best room temperature system available in the market. Adjustable pot life from 10 h to 15 min.</td>
<td>3</td>
</tr>
<tr>
<td>1070</td>
<td>Clear Epoxy laminating system.</td>
<td>Ease of use, room temperature curing, self levelling. Excellent UV resistance. Ideal for carbon look parts.</td>
<td>4</td>
</tr>
<tr>
<td>1080</td>
<td>Highest performance epoxy laminating system.</td>
<td>Enable mould release at room temperature and post-curing outside mould. Highest rigidity system.</td>
<td>4</td>
</tr>
<tr>
<td>1800</td>
<td>Lowest viscosity epoxy system for infusion.</td>
<td>Tg from 85° C to 130° C. Fast curing system.</td>
<td>4</td>
</tr>
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### COMPOSITE BOATS PRODUCTS

#### Resin Systems

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

#### Gel Coats—Top Coats

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<td>8020 EX</td>
<td>Epoxy fairing &amp; finishing filler</td>
<td>Non sag application up to 2 mm thickness @ 20°C.</td>
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<tr>
<td>8030</td>
<td>Epoxy profiling lightweight filler</td>
<td>Non sag application up to 40 mm thickness @ 20°C.</td>
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#### Adhesives

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

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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 97º C with 1045N and 1048N
- TG up to 144º 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 75ºC
- 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  
- Tg > 90º 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

- **Gel Coats**
  - VI 5090
  - 7060S
  - Self extinguishing coatings

- **Foam epoxy**
  - 2080M25
  - For rudders and daggers boards

- **Deck Caulking system**
  - 2090

- **Self extinguishing coatings**
  - 2010FGCS
  - 2010FCI

- **Laminating resins**
  - 1040T
  - 1050
  - 1080

- **Infusion resins**
  - 1050
  - 1800

- **Teak adhesive**
  - 3500

- **Foam core adhesive**
  - 3500HP

- **Bullhead adhesive**
  - 3040

- **Secondary lamination promoter**
  - 3350

- **High load adhesive**
  - 3050 CT

- **FILLERS & FAIRING**
  - 3010T
  - 8020EX

- **Epoxy paint for under water line & keels**
  - 3000T

- **Highbuild**
  - 3010T

- **Water based epoxy paint for bilges**

- **Water tank**
  - 4070AL

- **Fuel tank**
  - 7080HC

- **Highbuild**
  - 3010T
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 ratio 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 substracts

**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
COATINGS SYSTEMS

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 clear 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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