Fairing Compound Eco 299

Technical Data Sheet: 154-90
P2990

1. Introduction

ALEXSEAL Fairing Compound Eco 299 is a solvent-free ultra-light two-component epoxy filler and is a great product for yachts that require filling and fairing. ALEXSEAL Fairing Compound Eco 299 is excellent for application, sanding and shows outstanding anti-sagging properties. While the cured film provides an exceptional surface for recoating with other ALEXSEAL Yacht Coating products. This fairing compound cures without shrinking.

2. Range of application

ALEXSEAL Fairing Compound Eco 299 is used for filling all properly prepared surfaces and can be used for surfaces above and below the waterline. ALEXSEAL Fairing Compound Eco 299 used below the waterline must be sealed.

3. Color

Color of mixture: Brown
Base Red
Converter: Grey

4. Coverage

Volume Solids catalyzed without reduction: 100 %
Coverage for ALEXSEAL Fairing Compound Eco 299 will be based on the depth of filling required as well as the size of the surface to be faired.
Note: Coverage rates are figured for base and converter.

Density 0,65g/cm³

	m² / liter	m² / gal	sq. ft. / gal	@ DFT in µm (mils)
Theoretical	1.0	3.8	41.0	1 mm
Practical	0.15 0.11 0.07	0.6 0.44 0.29	6.4 4.8 3.2	6 mm 8 mm 10 mm

5. Substrate pre-treatment

The substrate must be clean, dry and free from dust, grease, oil and other contamination.

To ensure optimum adhesion, the substrate must be grounded and/or blasted with (P36-P60 grit) before priming. Full fairing systems require a heavily abraded substrate. Thin fairing systems of less than 3 mm (1 / 8 - 0.012 inch) will require a less aggressive profile to anchor the system.

For **metal substrates** - optimum mechanical and corrosion resistance values are achieved by proper surface preparation and substrate priming with ALEXSEAL Protective Primer 161. ALEXSEAL Fairing Compound Eco 299 may be applied directly to ALEXSEAL Protective Primer 161 without sanding for up to 6 months.

For **GRP substrate**, use ALEXSEAL Finish Primer 442, Super Build 302 or Protective Primer 161 over a properly prepared surface. The ALEXSEAL Primer (except ALEXSEAL Protective Primer 161, see 161 TDS) should be sanded with P60 - P80 grit, after over night dry, before application of ALEXSEAL Fairing Compound Eco 299.

For custom applications over substrates including epoxy resins, contact your ALEXSEAL representative.

6. Trade names & Packaging

P2990	ALEXSEAL Fairing Compound Eco 299 Standard Base	2 Gal
C2990	ALEXSEAL Fairing Compound Eco 299 Converter	1 Gal

7. Mixing ratio

By volume 2 : 1 (Base : Converter)

ALEXSEAL Fairing Compound Eco 299 must <u>not</u> be reduced

Professional Use Only

Rev 03/2024

Mankiewicz Coatings
1200 Charleston Regional Parkway
Charleston SC 29492, USA
Tel. +1 843 654 7755

www.alexseal.com

Mankiewicz Gebr. & Co.
Georg-Wilhelm-Str. 189
D-21107 Hamburg
Tel. +49 (0) 40 75 10 30
Fax +49 (0) 40 75 10 33 75

Fairing Compound Eco 299

8. Application

Application equipment: Trowels, spatulas, straight edge materials

The components of ALEXSEAL Fairing Compound Eco 299 have different colors to control the mixing process. After mixing, the color of the filler should be homogeneously. If the base and converter are not mixed thoroughly, it could result in an improperly cured paint. Mixing can be done mechanically with slow turning dough mixers or manually. Do not use drill mixers. The mixing in of air bubbles should be avoided.

The material can be easily applied by spatula or trowel; inclusion of air pockets should be avoided. Applying the product to the surface in thin layers and working up to the desired thickness before pulling the product out with a straight edge, will help avoid creating air pockets in the applied product.

For equipment cleaning use R4042 ALEXSEAL Epoxy Primer Reducer. ALEXSEAL Fairing Compound Eco 299 should be block sanded with P36 - P120 grit. Block sanding with P80 grit or finer will help prevent sand scratch print through in the finished system.

9. Pot life and Drying

Optimal application environment range - min. 15°C 40% RH, up to max. 30°C 85% RH

Temperature for minimum recoat time	15°C (60°F)	20°C	25°C	30°C	Max Dry Time
Pot Life with P2990 ALEXSEAL Fairing Compound Eco 299 Converter	90 min	70 min	60 min	45 min	N/A
Dry to sand with ALEXSEAL Fairing Compound Eco 299 Converter	43 hrs	24 hrs	18 hrs	16 hrs	N/A
Fully cured	15 days	10 days	7 days	5 days	N/A

Note: The above chart reflects approximate minimum and maximum time. Surface temperature, air flow, direct or non-direct sunlight, and film thickness will affect actual times during application.
During the drying phase the minimum temperature is 15°C. Ideal temperature: 25°C.
The minimum application condition should be 3°C above dew point.

Recoating of ALEXSEAL Fairing Compound Eco 299 over itself should follow minimum dry to sand times. Scratch sanding with P36 - P60 grit is recommended to ensure adhesion between layers of ALEXSEAL Fairing Compound Eco 299. Overcoating with other products including 302, 303 and 442 can be applied after the minimum time and after the surface has been block sanded with P36 - P120 grit. Finishing the block sanding with P 80 grit or finer will help prevent sand scratch print through in the final finish.

Rev 03/2024

Mankiewicz Coatings
1200 Charleston Regional Parkway
Charleston SC 29492, USA
Tel. +1 843 654 7755

www.alexseal.com

MANKIEWICZ Coating Concepts of the Future

Mankiewicz Gebr. & Co.
Georg-Wilhelm-Str. 189
D-21107 Hamburg
Tel. +49 (0) 40 75 10 30
Fax +49 (0) 40 75 10 33 75