



GS MARINE
SURVEYS

FOR THE YACHT AND SMALL CRAFT
COMMUNITY

GS MARINE SURVEYS

Comprehensive Marine Analysis

OSMOSIS
IN
FRP CRAFT

**Hull Osmosis Inspection Checklist
(Winter Haul-Out)**

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■ Hull Osmosis Inspection Checklist (Winter Haul-Out)

■ Step 1: Initial Cleaning

Pressure-wash the hull immediately after lift-out.
Remove slime, algae, and antifouling residue.

■ Step 2: Visual Inspection

Look for blisters (small bumps, usually below waterline).
Check for discoloration (dull, chalky, or uneven gelcoat).
Inspect cracks and scratches, especially near keels and fittings.
Optional: Puncture a blister — if liquid smells acidic, osmosis likely.

■ Step 3: Percussion (Tap) Test

Use a plastic mallet or screwdriver handle.
Tap along hull in a grid pattern.
Sharp sound = healthy laminate. Dull/hollow = moisture/delamination.

■ Step 4: Moisture Meter Testing

Take baseline readings above waterline (should be dry).
Take readings below waterline in a grid pattern.
Compare readings: higher + persistent = water ingress.

■ Step 5: Record & Monitor

Take photos of suspect areas for comparison next year.
Log meter readings (above vs below waterline).
Track blister growth over seasons.

■ Step 6: Plan Preventative Actions

If dry: renew epoxy barrier coat before relaunch.
If minor blisters: grind out, dry, refill with epoxy filler.
If widespread blistering/high moisture: seek professional treatment.

