



AMPRO™ CURES AT TEMPERATURES AS LOW AS 5°C MAKING IT PRACTICAL FOR USE ON SMALL DIY TASKS, SUCH AS THIS REPLACEMENT RUDDER.

STEVE MAIN  
Senior Technical Support Engineer, Gurit



The rudder in use on the miracle dinghy

#### TARGET

Manufacture a replacement rudder for a Miracle dinghy

#### SOLUTION

AMPRO™ CLR used in conjunction with Corecell™ M Foam, providing a tough and lightweight rudder

#### HOW TO MAKE A RUDDER USING AMPRO™ AND CORECELL™ M FOAM

To demonstrate how Gurit AMPRO™ and Corecell™ can be used for every-day, do-it yourself tasks, Steve Main, Senior Technical Support Engineer at Gurit, made a replacement rudder for a Miracle Dinghy by following these simple steps:

- Corecell™ M80 structural foam was bonded to either side of a strip of mahogany wood
- The Corecell™ was cut and profiled to the correct rudder shape
- The profiled Corecell™ was coated with a thin layer of AMPRO™ CLR mixed with AMPRO™ silica to fill all the pores in the core surface.
- 1 ply of unidirectional and 2 plies of woven glass reinforcement were wet out with AMPRO™ CLR, by pouring the mixed system on top and using a squeegee to wet-out the fabric.
- The wet-out reinforcements were wrapped around the profiled Corecell™, sheathing it fully, then placed into a vacuum bag and cured.
- The rudder was given two coats of AMPRO™ CLR, cured, sanded and a UV varnish applied.
- The rudder was ready to be tested in the water!

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