

CASE: Rolls Royce, Norway



The **Rolls Royce** of floors also is the **Floor** of Rolls Royce!

When **Rolls Royce Marine** needed to renovate their facilities, they called upon **Ulfcar®**

In one of the most scenic parts of the Norwegian landscape, Rolls Royce Marine produces Heavy Duty Equipment for the oil and marine industry. Like the famous cars of same name, proud craftsmanship combined with the latest technology is put into the production of special submarines and gigantic ship propellers. The requirements from the production explain why this is not your average production floor. Due to the extremely heavy loads passed to the floor, the engineers had to design a very special floor build up. Special heavy load steel bars were installed every 1 meter through the production area to absorb the weight



Starting from a block of metal, the specialists from Rolls Royce transform this into a propeller with a diameter of 8 meters. Naturally all hand made.

of the special submarines produced here, each exceeding a weight of more than 20 tons per unit, covering only a space of 4 sqm. Naturally a tough challenge for any floor construction, so Ulfcar® therefore decided together with the engineering office at site to install Acrydur® Industry in between the steel bars so the massive load still is supported. Because of the high flexibility and durability of the Acrydur® Industry system, no cracking or spalling occurs between the steel bars and the Acrydur® Industry system during production. Aftermarketed Workshop Manager Geir Sunddal explains: "Our customers require 24 hour service from our side. When a bulk carrier or a passenger ship loses or damage its propeller, time is money. We must be able to respond immediately, and hence to this we need production facilities that can live up to this. The floor is an essential part of our capability to produce and therefore we can only accept the absolute best the market can offer. We have now installed more than 3.000 m² of Acrydur® Industry, and so far we have been absolutely satisfied with the quality of the system. We have had some minor repairworks made, and thank to the very fast curing of the Acrydur system, this has no influence on our production schedule"



20 tons of hi-tech submarine equipment, at less than 4 m² of space.

About Rolls Royce Marine

Rolls Royce Marine, the former Ulstein Yard, is located on the island Ulsteinvik, close to Aalesund, Norway. Strategically placed with direct access to the North Sea, the yard produces equipment for the oil and marine industry. More than 2.000 people work on the site, which makes it the largest employer by far in the region. Due to the take over of Rolls Royce in the year 2001, a renovation process was initiated to bring the facility up to the highest possible production standard. The engineers expect to complete the renovation process in 2008, making this the most modern production of its kind in the world.

We know the solutions...

With more than 35 years of experience in the manufacture and application of resin based surface materials, Ulfcar is renowned as one of the leading experts in this field. Our knowledge will provide tailor made solutions to meet specific needs. With our latest updates in technology based on epoxy, polyurethane and MMA resins, we can guarantee that your result will be prescribed to the ultimate of what can be achieved.



Afterservice repair shop covers an area of more than 3.000 m²

For further information please contact **ULFCAR INTERNATIONAL ApS**, PHONE +45 7021 3888 - FAX +45 7021 3889 - e-mail: info@ulfcar.com

FACTS

- ▲ Floortype: Acrydur® Industry
- ▲ Year: 2005
- ▲ Total sqm.: 3.000 sqm
- ▲ Place: Rolls Royce Marine, Norway
- ▲ Type of environment: Heavy industry
- ▲ Colour: UI 40

BENEFITS

- ▲ Extremely durable
- ▲ Nonslip finish
- ▲ Seamless and flexible finish
- ▲ Multiple colours
- ▲ Excellent chemical resistance
- ▲ Fast installation
- ▲ Low maintenance cost
- ▲ 100 % watertight

SYSTEM BUILD UP

Acrydur® Sealer 0.5 mm
 Acrydur® wearlayer 6 mm
 Acrydur® GRB1 Primer 0.2 mm
 Concrete

