PRO-EPOX 101

EPOXY RESIN

PRODUCT INFORMATION SHEET



INTRODUCTION

PRO-EPOX 101 is an epoxy resin formulated for ambient curing, resistant to the unfavorable conditions which are usually encountered in shipyards. It offers a very manageable pot life and will continue to cure even if temperatures drop to near 0 °C. It also exhibits excellent resistance to amine blushing.

PRO-EPOX 101 is a higher viscosity resin, which is very useful when applying to vertical or inverted surfaces. Nevertheless, due to its lowered surface tension, it offers faster foam diffusion, substrate penetration and wetting of fibers.

It is suitable for interior and exterior use, above and below the waterline. Its two main uses are:

- Lamination, GRP and FRP hand lay-up repairs.
- Protective base / sealer layer on synthetic and wooden hulls.

FOAM DIFFUSION

The foam diffusion property is desirable in a resin as it results in reduced voids in coatings and laminates. This is important because voids can contribute to the appearance of osmosis. Minimizing voids also results in stronger laminates.

A comparative test is shown in the picture to the right. It can be seen that PRO-EPOX 101 very quickly diffuses macrofoam created during mixing of the components and gradually dissipates all visible microfoam.



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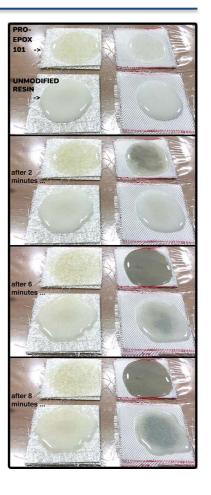
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WETTING

The wetting property of an epoxy resin is especially helpful for professionals in boat repair and maintenance. In other sectors various techniques can be used to aid wetting, e.g. vacuum and temperature control. In a typical yard, however, these options are not available.

The test pictured on the right shows how quickly PRO-EPOX 101 wets mat and roving fiberglass fabrics, compared to a standard resin. After 6 minutes, it is fully absorbed by the mat fabric and has wetted the roving fabric all the way to the bottom.



AMINE BLUSHING

Amine blushing is a by-product often created during ambient curing, especially under cold and humid conditions. While it does not affect the properties of the laminate/coating, it has to be removed before recoating or overcoating. To remove it, it either has to be washed off or solvent wiped. In both cases, the resin will have to be hard dry before soap water or solvent is applied to it. The result



is, extra work, extra time until full cure and loss of the recoat window. Hence, a resin system which minimizes or eliminates blushing is a significant aid when working in the yard.

In the picture above, we have let a sample of PRO-EPOX 101 and a sample of an unmodified resin cure outdoors. Blushing is visible on the unmodified resin sample.

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