

Humidity Control

Humidity control system for
painting works in the naval industry.



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PROCESS INTRODUCTION

In the process of painting ships and yachts, it is highly important to control the climate conditions, especially during the paint application and drying.

It is crucial to keep the proper humidity levels during the paint application stages and the first 24 hours of paint drying and curing to prevent devastating results. Paint defects include:

Gloss and paint coat loss.

Matte points.

Rough and granular surface.

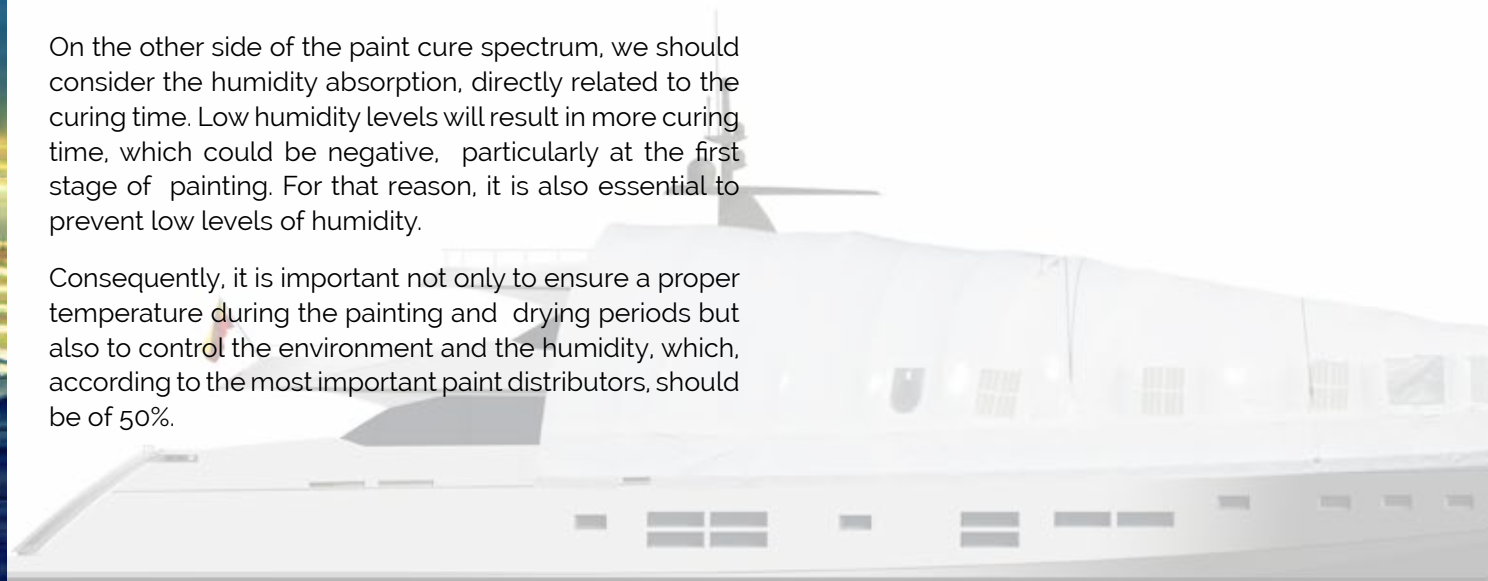
Paint blisters.



Condensation appears on the surface when vapor reaches the saturation limit and temperature drops down below the dew point. Consequently, we need to avoid and prevent situations with high humidity levels.

On the other side of the paint cure spectrum, we should consider the humidity absorption, directly related to the curing time. Low humidity levels will result in more curing time, which could be negative, particularly at the first stage of painting. For that reason, it is also essential to prevent low levels of humidity.

Consequently, it is important not only to ensure a proper temperature during the painting and drying periods but also to control the environment and the humidity, which, according to the most important paint distributors, should be of 50%.



OUR SOLUTION

PVS, committed to serve the naval industry, has developed, with the support of its R&D teams, his own solution for the humidity control of the working area. The objectives of the equipment are:

Control and monitor the humidity levels in the painting areas.

Ensure the properly conditions of relative humidity for painting works.

Keep the adequate conditions during the first stage of paint curing.



Thanks to the reduced dimensions of the equipment, we can easily cover different areas with the highest effectivity and flexibility.



PVS humidity control systems may be installed together with its air filtration scrubbers, which allows to monitor both of them simultaneously with a remote control.