



## REPORT

### 1. Subject of the report

Testing of paint coating resistance to a 5% solution of sodium chloride in artificial conditions.

### 2. Name and address of the producer

PAGED MEBLE S.A.  
UL. CIESZYŃSKA 99  
43-385 JASIENICA

### 3. Test report:

#### 3.1 Applied standard

The test was conducted according to the ISO 9227:2012 standard.

#### 3.2 Equipment

The test was conducted in a Q-FOG SSP/600 cyclic corrosion test chamber.

#### 3.3 Type and purity of salt and water used

Distilled water with a purity of 20  $\mu\text{S}/\text{cm}$  and analytically pure sodium chloride were used in the test.

#### 3.4 Description of the tested product

The test was conducted on bentwood chairs made of beech wood and molded plywood. Due to the size of the chamber, the test was conducted on bentwood seats with beech plywood fixed in the rabbet.

#### 3.5 Preparation of the test sample

The samples were protected with an organic impregnant and a paint coating.

#### 3.6 Number of samples

The test involved 2 samples.

#### 3.7 The angle at which the tested surfaces were set

The sample exposure angle ranged from 60° to 75°.

#### 3.8 pH of the brine solution

The pH was about 4.

#### 3.9 Concentration of the brine solution

The solution concentration was 50 g/l, i.e. 5%.

#### 3.10 Parameters and time

The experiment was conducted in the form of a 168-hour cycle, which consisted of three looped stages repeating one after another.

Stage	Temperature	Humidity	Time	Activity
1	35 °C	100%	3h	salt fog
2	35 °C	100%	1h	inactivity
3	45 °C	100%	1h	drying

#### 3.11 Date of the test

14.05.2018-21.05.2018

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#### **4. Test results**

- the condition of the furniture surface after the test was rated as good:
- no wood damage, no deformation
- no delamination
- overall condition of the coating rated as good
- no surface streaks

#### **5. Summary and conclusions**

The 168-hour cycle in the chamber allows us to assess the extreme effects of salt water (e.g. sea water) in the form of salt fog on a paint coating. The test may make it possible to eliminate the suspected adverse impact of this factor on the use of furniture in the direct vicinity of seawater (the average ocean salinity is 35 ‰, which is lower than the solution used in the test).

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