

# DIN EN 927-6:2006-10 (E)

## Paints and varnishes - Coating materials and coating systems for exterior wood - Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Principle .....	5
4	Apparatus .....	6
4.1	Test chamber .....	6
4.2	Lamps .....	6
4.3	Device for wetting the test panels .....	6
4.4	Black panel thermometer .....	7
4.5	Irradiance control .....	7
5	Test panels .....	7
5.1	Wood .....	7
5.2	Preparation and selection of wood panels .....	8
5.3	Preparation of coated panels .....	8
6	Procedure .....	9
6.1	Examination before exposure .....	9
6.2	Mounting the test panels .....	9
6.3	Exposure .....	9
6.4	Examination of test panels .....	10
7	Precision .....	11
8	Expression of results and test report .....	11
Annex A (normative) Details of test methods .....		12
A.1	Gloss and change of gloss .....	12
A.2	Colour and colour change .....	12
A.3	Blistering .....	12
A.4	Flaking .....	12
A.5	Cracking .....	12
A.6	Chalking .....	12
A.7	General appearance .....	13
A.8	Adhesion .....	13
A.8.1	General .....	13
A.8.2	Apparatus and material .....	13
A.8.3	Procedure .....	13
Annex B (informative) Explanatory notes .....		14
B.1	Explanation of exposure cycle .....	14

<b>B.2</b>	<b>Reproducibility .....</b>	<b>14</b>
<b>B.3</b>	<b>Correlation to natural weathering .....</b>	<b>14</b>
<b>B.4</b>	<b>Dependency on wood species and substrate .....</b>	<b>14</b>
<b>B.5</b>	<b>Recommendation of periodical performance assessments .....</b>	<b>14</b>
<b>Annex C (informative) Test for heartwood in pine .....</b>		<b>15</b>
<b>Annex D (informative) Water treatment, devices for water purification .....</b>		<b>16</b>
<b>Annex E (normative) Test for abnormally porous wood .....</b>		<b>17</b>
<b>Annex F (informative) Alternative procedure for preparation and coating of panels .....</b>		<b>18</b>
<b>Bibliography .....</b>		<b>19</b>