

# TESTS AND STANDARDS

## EXTERIOR COATINGS

There is more to paint than meets the eye. At Teknos, coatings for exterior products undergo an extensive programme of testing against European standards. They take our coatings to the limit so that our customers' products have the durability to face the environments for which they were designed.

This infographic summarises the key tests that are performed depending on the coating type. For a closer look, watch our video 'Testing Strengths' on Teknos YouTube channel.

### OUTDOOR WEATHERING

Test standard: **EN927-3, EN330**

Coated wood is exposed to various natural weathering effects like swelling, shrinkage, moisture, temperature and microorganisms.

**Why is this important?**

**Durability;** exterior coatings protect the wood from these weathering effects.



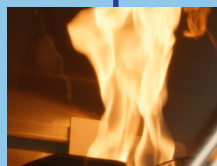
### FUNGI, BLUESTAIN, INSECTS

Test standard: **DS/EN 599-1+A1**

Wood treated with preservative is exposed to biological tests for efficacy against blue stain, wood destroying fungi, beetles, and termites.

**Why is this important?**

**Surface;** the performance of the wood preservative is evaluated for discoloring fungi, decay and damages which can degrade the coating.



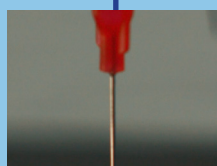
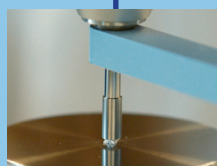
### COMPOSITION

FTIR machine

Examines the nature of the chemical components that make up the coating.

**Why is this important?**

It ensures the quality of raw materials and finished coatings.



### ULTRA VIOLET LIGHT

Test standard: **DS/EN927-6**

Coated wood is exposed to cycle conditions like dew, UV-light and water-spray simulating rain, depending on which the coating must withstand.

**Why is this important?**

**Colour and gloss;** the specimens are evaluated for cracking, flaking and blistering, and colour and gloss are also measured to see how the coating and substrate is affected.

### FIRE

Test standard: **EN13501-1**

Coating systems are assessed according to the standard to ensure fire retardant performance, during research & development. The final test for Reaction to Fire classification is performed by an external body.

**Why is this important?**

Assesses the effectiveness of reaction to fire of wood coated with fire retardant.

### ADHESION

Contact Angle machine

Looks closely at the physical chemical nature of substrates and coating films which impact the wetting properties.

**Why is this important?**

**Adhesion;** The better the wetting, the better the durability of the coating.

We make coated exterior products last longer