

Testing and assessment of surfaces for outdoor use

Appearance and durability are the main criteria for choosing of coatings for wood in exterior use. We offer you a wide range of tests and know how on all related questions.

Assessment of processing properties

- Determination of rheological properties
- Determination of spreadability, splashing and dripping properties of DIY products
- Determination of wettability

Determination of coating properties

- Adhesions properties (cross cut, tensile method)
- Microhardness (martens hardness, viscoelastic properties)
- Water and water vapour permeability acc. to EN927-4/EN 927-5 and water vapour resistance acc. to EN 12572
- Resistance to caking and sealing profiles
- Resistance against chemicals (cement, cleaner)
- UV- transmissibility and transparency
- Elasticity and elongation



Determination of ultimate elongation

Determination of aging behaviour

- Behaviour at artificial weathering in QUV and xenon test devices
- Behaviour at outdoor weathering acc. to EN 927-3
- Chemilumiscens investigations, DSC, FTIR, microhardness



QUV test device

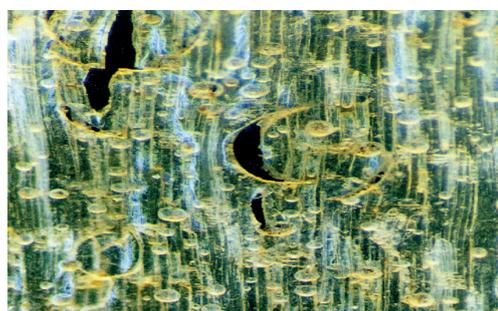
Damage analysis

- Determination of penetration depth, layer thickness (also for decopaint-guideline) and wood humidity
- Macroscopic and microscopic image recognition of damages
- Detection of fungicides and wood destroying or discolouring fungi

As results of tests or investigations you will get reports of our laboratory which is accredited according to EN ISO 17025. As conformation of quality properties we execute test certificates and you can use our quality labels. Additional an external control of your products can be agreed.



Outdoor weathering at IHD/EPH



Microscopic picture of a damage caused by hailstorm

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Damage analysis
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