

COMPARING ANKER STUY COATING SYSTEMS AGAINST UK LEADING MARKET REFERENCE

Objective: to compare Anker Stuy coating systems against the coating systems of market leaders in the UK joinery industry with emphasis on water resistance after critical drying during winter.

SYSTEMS TESTED

| | System 1 | System 2 | System 3 | System 4 |
|----------------------------|--|---|---|---|
| First coat (150µm wet) | Hydrolux Basecoat white / market reference (MR) primer | Hydrolux Basecoat white / market reference (MR) primer | Hydrolux topcoat Thix SM RAL 7026 / Market reference (MR) low glos topcoat RAL 7026 | Hydrolux Basecoat white / market reference primer (MR) |
| Second coat (175µm wet) | Hydrolux topcoat Thix SM RAL 9010 / Market reference (MR) low glos topcoat RAL 9010 | Hydrolux topcoat Thix SM RAL 9010 / Market reference (MR) low glos topcoat RAL 9010 | Hydrolux topcoat Thix SM RAL 7026 / Market reference (MR) low glos topcoat RAL 7026 | Hydrolux topcoat Thix SM RAL 7026 / Market reference (MR) low glos topcoat RAL 7026 |
| Third coat (175µm wet) | Hydrolux topcoat Thix SM RAL 9010 / Market reference (MR) low gloss topcoat RAL 9010 | none | none | Hydrolux topcoat Thix SM RAL 7026 / Market reference (MR) low glos topcoat RAL 7026 |

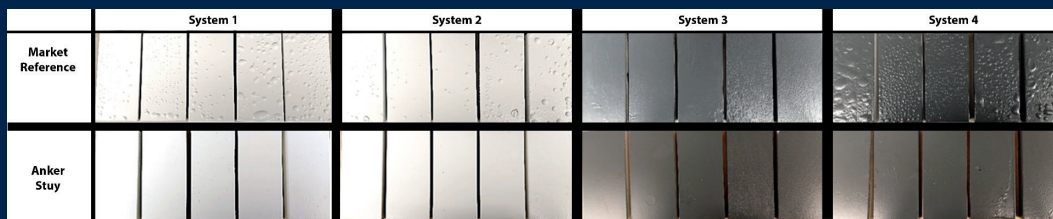
- Application: airmix spraying
- Substrate: redwood panels, sealed according to EN 927 5 and sapeli , coated front and edges, no extra sealing
- Drying: 2,5 hrs @ 15 C/75 % RH after each coat
- Through drying before floating in water: 24, 48, 72 and 144 hrs @ 12 C/ 60 % RH
- Testing: 72 hr floating on water with recording of weight increase (= wateruptake) according to EN 927 5



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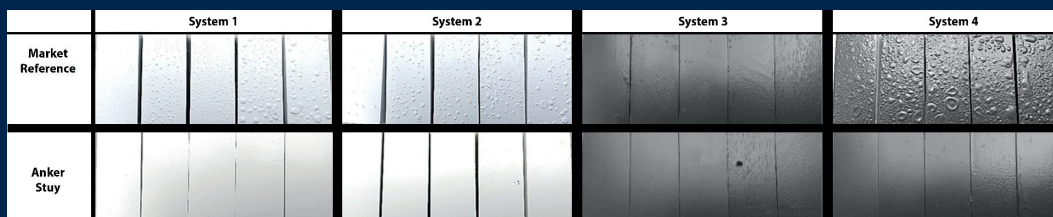
WATER RESISTANCE AFTER 1 DAY DRYING



AS: no blisters,
MR: blisters in system
1,2 (strong) and 4 (very strong)

2 samples at the right= sapeli,
3 samples left = redwood

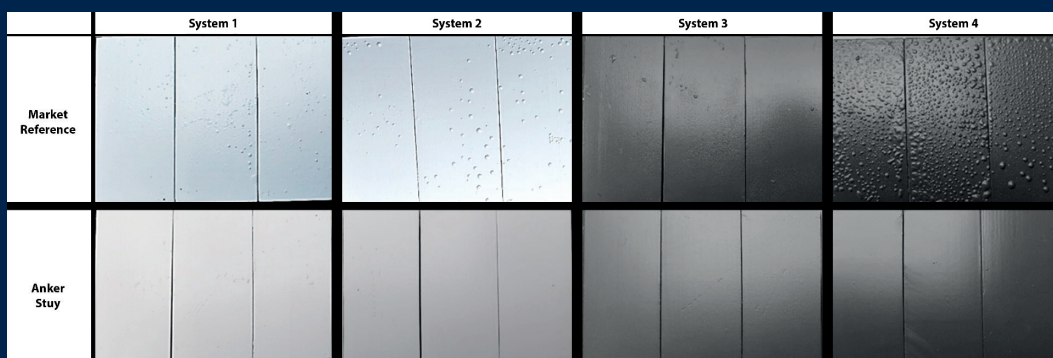
WATER RESISTANCE AFTER 2 DAYS DRYING



AS: no blisters,
MR: blisters in system
1,2 (strong) and 4 (very strong)

2 samples at the right= sapeli,
3 samples left = redwood

WATER RESISTANCE AFTER 7 DAYS DRYING



AS: no blisters,
MR: blisters in system
1,2 and 4 (very strong)

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CONCLUSIONS:

- Anker Stuy systems do not blister even if drying time is short (1 day) and drying temperature is low (12-12°C).
- Most of the market reference systems do show severe blistering. Although blisters become smaller in size, even after 1 week drying at 12 °C blisters are still developing when exposed to water. The blisters largely disappear after drying but some wrinkles remain.
- Water uptake with the Anker Stuy systems is much lower compared to the market reference, especially after 1 or 2 days of drying.
- With Anker Stuy systems the resistance to water is better and uptake of moisture in the timber is lower when the coating is dried under non-ideal conditions.
- Hence with Anker Stuy joinery coatings the risk of moisture-related complaints with wooden joinery on site will be reduced.

