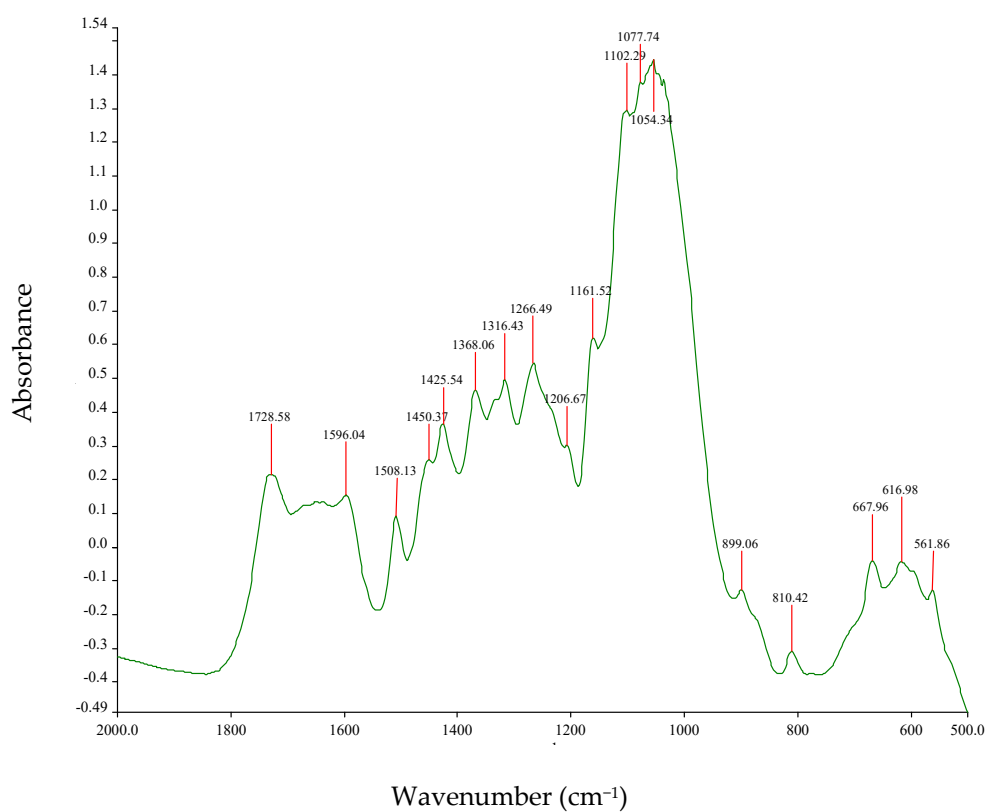


# Supplementary Materials: Surface Protection of Wood with Metal Acetylacetonates

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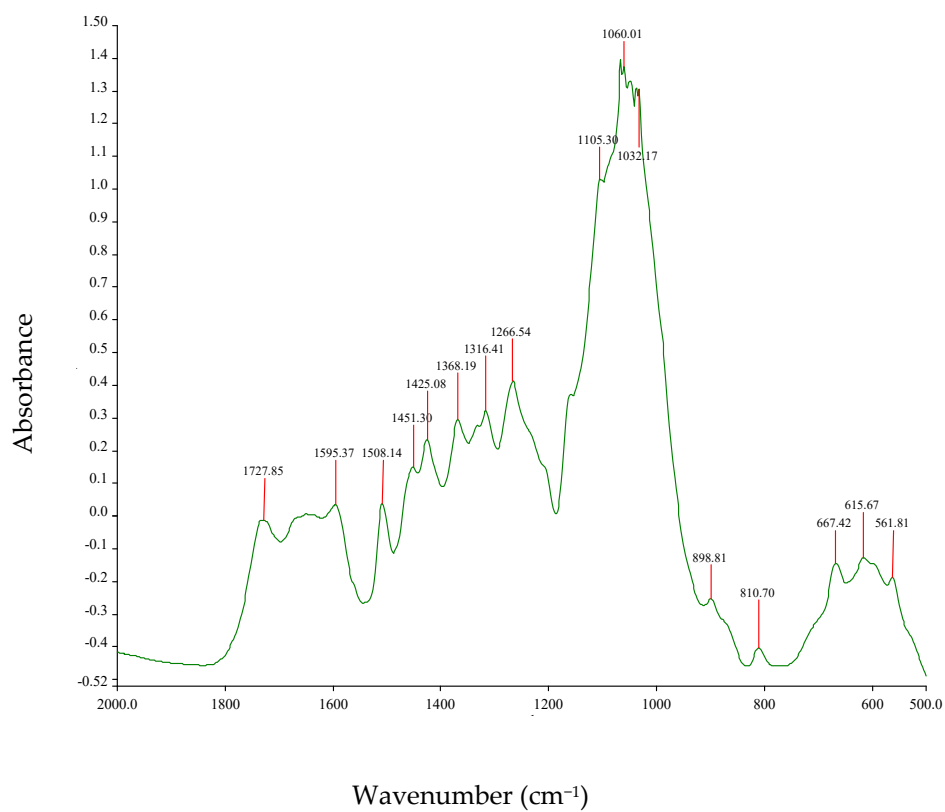
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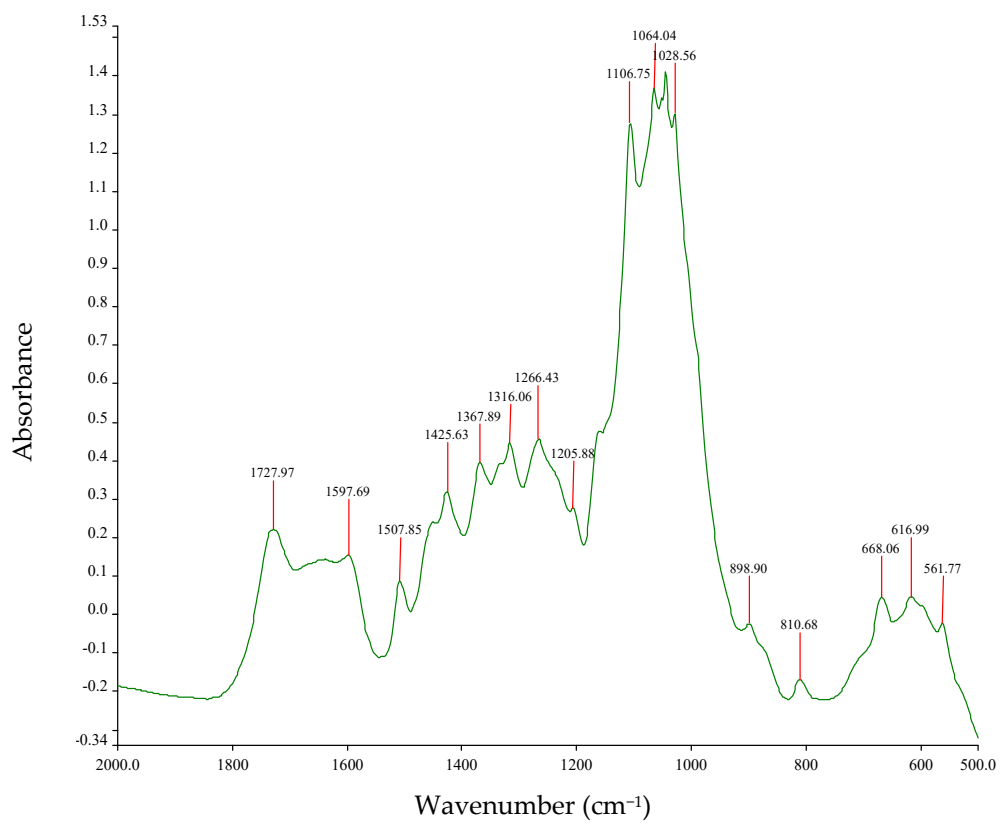
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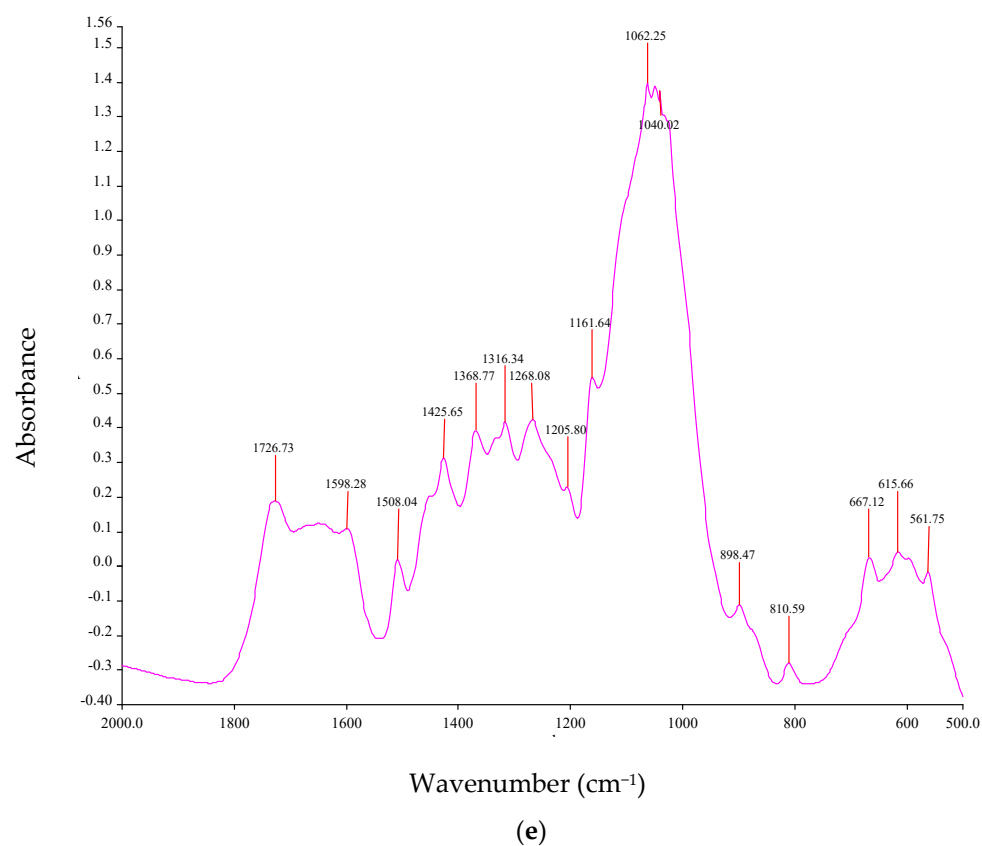
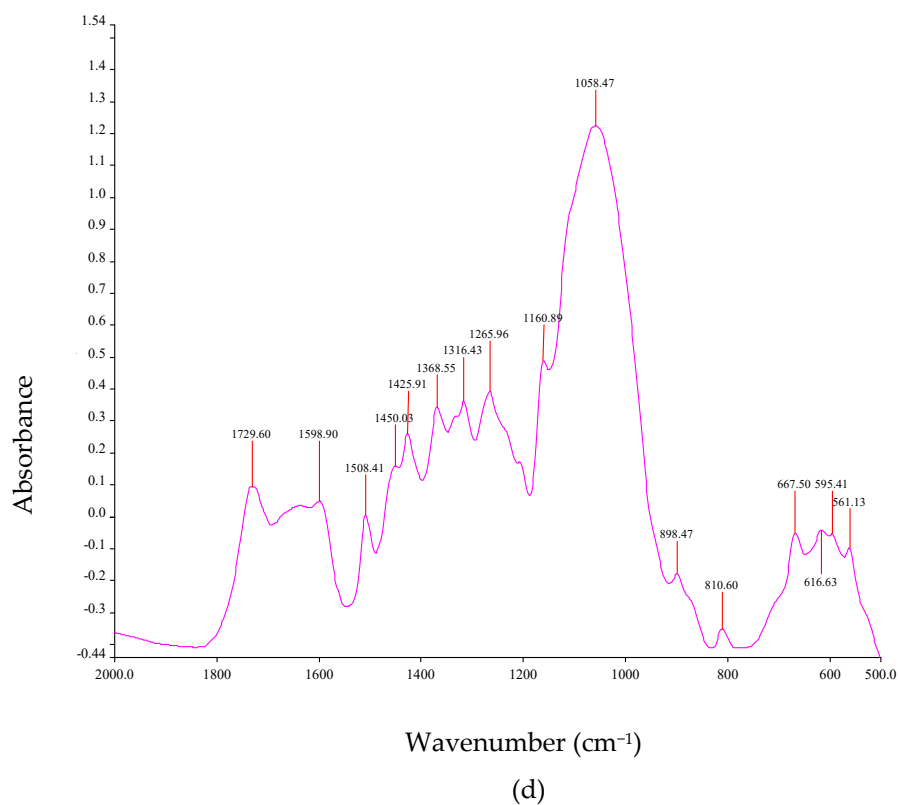
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(b)



(c)



**Figure S1.** FTIR spectra of treated wood veneers after 20 days of natural weathering: (a) Chromium acetylacetonate; (b) Iron acetylacetonate; (c) Manganese acetylacetonate; (d) Nickel acetylacetonate; (e) Titanium acetylacetonate.

**Table S1.** Properties of yellow cedar boards used to prepare uncoated panels for weathering trial.

Board Number	Basic Density (kg/m <sup>3</sup> )	No. Growth Rings/cm
1	377	9–17
2	406	15–39
3	386	10–18
4	429	19–35
5	352	7–12

**Table S2.** Properties of yellow cedar boards used to prepare coated panels for weathering trial.

Board number	Basic Density (kg/m <sup>3</sup> )	No. Growth Rings/cm
1	402	22–37
2	503	35–44
3	376	10–18
4	480	35–45

**Table S3.** Properties of polyurethane coating applied to treated panels and untreated controls <sup>1</sup>.

Property	Unit	Value
Viscosity <sup>2</sup>	Seconds	95
Solids content	Weight percentage	45 ± 1
Solids content	Volume percentage	40 ± 1
Coverage	m <sup>2</sup> /L	9.3
Wet thickness of coating	Microns	100–150
Number of coats	No.	2
Drying time	Hours	6

<sup>1</sup> Provided by the manufacturer; <sup>2</sup> DIN flow cup No. 6 at 20°C.