

Performance Comparison Between eonic clay covering and Traditional Building Decorative Materials

No./ Performance	eonic clay covering	Ceramic Slab	Wall Cloth	Natural Stone	Coating				Wood Veneer		PVC Panel		
					Emulsion Paint	Diatom Mud	Mud Paint	Inorganic painting	Wood Veneer	Artificial Wood Veneer			
1	Fire Sately	A Class	A Class	C Class	A Class	C Class	A Class	A Class	B Class	C Class	C Class	B Class	
2	Environmental Friendliness	Application	Excellent, UL certificate	Good, Environmental Labeling	Depends on quality. VOCs are typically above safe figures level	Depends on quality. Some varieties are radioactive	Poor VOCs are typically above safe figures level	Good No VOC release	Good No VOC release	Depends on quality	Depends on quality	Poor VOCs are typically above safe figures level	Depends on quality. VOCs are typically above safe figures level
		Production process	3R* principles matched Low Energy Consumption Zero Emission Zero Pollution Renewable	Fails to match 3R* principles High Energy Consumption High Emission High Pollution Non-renewable	Depends on quality	Fails to match 3R* principles High Energy Consumption High Emission High Pollution Non-renewable	Depends on quality	Fails to match 3R* principles Destroy Nature Non-renewable	3R* principles matched Low Energy Consumption Zero Emission Zero Pollution	Depends on quality	Fails to match 3R* principles Destroy Nature Non-renewable	Fails to match 3R* principles High Energy Consumption High Emission High Pollution Non-renewable	Fails to match 3R principles High Energy Consumption High Pollution Non-renewable
3	Moisture Absorption and Dampproof capacity	Excellent in moisture proofing. Keeps structure dry in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Excellent in moisture proofing. Keeps structure dry in wet conditions	Excellent in moisture proofing. Keeps structure dry in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	
4	Moldproof	Good	Good	Poor	Good	Poor	Varies in quality	Good	Varies in quality	Poor	Good	Good	
5	Breathability	Excellent	Poor	Poor	Excellent	Poor	Excellent	Excellent	Good	Excellent	Poor	Poor	
6	Air-cleaning capacity	Able to absorb and decompose formaldehyde and odor due to its catalytic UV feature.	Unable to absorb formaldehyde Some are able to decompose formaldehyde on the surface	No	No	No	Able to absorb and decompose formaldehyde and odor	Able to absorb and decompose formaldehyde and odor	No	No	No	No	
7	Durability	Durable No edge lifting Fastness Moldproof No emptying swell**	Durable No edge lifting Fastness Emptying swell**	Not durable, remains shape for 1-2 years Color fading Easy to mildew	Durable No edge lifting Fastness Emptying swell**	Not durable Fades fast, especially dark colors Easy to mildew	Not durable No peeling Softening with water Powdering	Durable No peeling Fastness Moldproof Remains hard effected by water	Durable Fastness Moldproof Remains hard effected by water	Not durable Easy rots Easy to mildew	Not durable Easy to deform Edge lifting Color shading	Durable No edge lifting Moldproof No emptying swell	
8	Salt Spray Resistance	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor	Poor	Good	
9	Application/construction method complexity	Simple, No anchoring required	Complex	Simple	Complex	Simple	Complex	Situation Depends	Complex	Simple	Simple	Simple	

* 3R principles refer to reducing, reusing and recycling.

** Emptying Swell refers to an effect caused by a high air pressure created in the cavity under the low/none-air permeable cladding that causes its detachment from the surface.

eonic clay covering have passed the inspection and certification of these international authorities

1. UL: American Conference of Governmental Industrial
2. EU CE certification and Class A fireproof certification
3. Russia (GoST) standard certification
4. Polish Conference of Governmental Industrial
5. TPAT Customs-Trade Partnership
6. 2014/90/EU MED 96/98/ECe 2014/
7. Czech Republic fire safety A Class
8. Russia fire safety A Class
9. Malaysia fire safety A class
10. Singapore Greenable Green certification
11. Korea Green Building Material certification
12. UNIEN ISO 14021: Products contain at least 40 percent recyclable material before consumption
13. China certification and Class A fireproof certification
14. UNIEN ISO9001 National Quality Management System certification
15. China National Safety Standardization Production Certificate
16. China National Occupational Safety and Health Management System Administration
17. CCEP(China Certification for Environmental Products)
18. China 3-star Greenable Green certification

