

Sirca
THE WOOD COATINGS

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LEED 275 VOC

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The development of renewable energy resources traces the path of sustainable development, but it is clear that the energy-saving and eco-sustainability is the easier, faster and unique road to be considered to reduce pollution and allow the application of a correct energy saving policy in buildings.

Construction industry is responsible for the emission of about 40% of CO₂ in the atmosphere: it follows that such a policy would have a major impact on overall consumptions.

The **LEED programme**, which stands for Leadership in Energy and Environmental Design, is a construction standard based on certain fundamental principles such as the containment of energy used also through the use of recycled and recyclable materials, control of pollution sources (both under construction, or during use of the building and the premises included in it) and the commitment to keep a comfortable environment for those who will have to live in.

This program is applied, in the woodcoatings sector, to those products that are used on architectural wooden elements. The aim is to considerably limit the emission of VOC (Volatile Organic Compounds) into the atmosphere, both during application of coatings and in terms of post emissions inside the houses or work units. The imposed limit of **VOC** is equal to **275 g/l**.

For this reason, Sirca R&D Division developed a range of special PU products that satisfy LEED Programme, including the following products:



FPU800

LEED clear PU sealer

Polyurethane clear basecoat for general use with good mechanical properties and coverage. Excellent transparency and optimal sandability. It is suitable for the handcraft and OEM painting of interior doors and furniture.

FPP830

LEED white PU sealer

PU white basecoat for general use, characterised by good sandability, hiding power, coverage and excellent appearance on wood's grain and built. Good, in addition, the chromatic coverage. Its final colour can be customised adding proper pigmented pastes.

OPU800G series

LEED clear PU matt topcoat

Polyurethane topcoat for general use characterised by good scratch resistance and smoothness to the touch. The product is suitable for applications on polyester or polyurethane basecoats. The cured coating shows good chemical and mechanical properties.

OPP8830 series

LEED white PU matt topcoat

PU pigmented topcoat for general purpose, characterized by good light fastness, very good scratch resistance and fast drying. It is versatile and suitable for both open and closed grain systems. Its final colour can be customised adding proper pigmented pastes

The above listed products can be combined to define the application system based on customer's needs and nature of wooden substrates to be painted.

Hereby the suggested systems:

Clear PU matt system for interior furniture

- Sanding of raw wood or veneer with 150-180 paper grit
- Application of FPU800/CT800/Thinned with exempt solvents - clear sealer in one or two coats **100-140 g/m²**
- Drying at room temperature for 6-8 hours
- Sanding with 280-320 paper grit
- Application of OPU800G series/CT800/Thinned with exempt solvents - clear topcoat in one coat **100-140 g/m²**

Pigmented PU matt system for interior furniture

- Sanding of raw wood or veneer with 150-180 paper grit
- Application of FPP830/CT800/Thinned with exempt solvents - White sealer in one or two coats **120-140 g/m²**
- Drying at room temperature for 2-4 hours
- Sanding with 280-320 paper grit
- Application of OPP8830G series/CT800/Thinned with exempt solvents pigmented topcoat in one coat **120-140 g/m²**

