RubWPC

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Newsletter

Dear colleagues,

it's our pleasure to introduce you **RubWPC** project, **Rub**ber Fusion of **W**ood **P**lastic **C**omposite to Make Functional Composites for Building Applications, funded by the European **CIP-EIP-Eco-innovation-2012** (Project Number: 333083).

The project aims to the production and certification of the second generation of wood and plastic composite (WPC), mainly using the **rubber** of used tires, **wood** and **plastic** waste, hence the name RubWPC.
Vibration damping, wearing, slip resistance, thermal and acoustic performance will make RubWPC most attractive for construction and other special applications.

Project objectives are the dissemination and the marketing of RubWPC products that have to reduce the environmental impact and have to contribute to an optimal use of resources.
Innovation helps to increase the use of recycled materials, to produce quality products with lower environmental impact and to implement processes and production services more environmentally friendly.
The use of rubber from used tires, allows an **improvement of thermal, acoustic and impact resistance properties**, compared to the first generation of WPC.

Four possible building product ranges were identified:

- flooring, pavement or other surface areas where slip resistance is required;
- rail or other sense surface, such as guide rail or arch for blind people;
- areas requiring high impact performance;
- acoustic bodies.

Innovative aspects are:

- new route of utilization;
- RubWPC extrusion process with a variety of end products;
- Innovative combination of rubber, plastic and wood: rubber for acoustic and impact resistance, wood for light weight and aesthetic effects and plastic for good flow for ease of compounding;
- Material can be used as decking and hollow sections for indoor, outdoor in building construction and some automotive applications;
- RubWPC can be used in where a specific characteristic is required (e.g. nursing house for a slip resistant surface, studio for improved acoustic effect).

For more details and updated information, please visit the project website: www.rubwpc.eu.

Best regards,

RubWPC Consortium