

**Trelleborg Rubber Flooring
C¹™**

Company / Manufacturer

General

C¹ is a rubber flooring, which is marketed by Trelleborg Rubber Flooring and manufactured by PA Technical Composites, which is a product area within Trelleborg AB.

Environmental policy/work

Extract from the environmental policy of the product area:

"In our business development we will cooperate with customers and suppliers, strive for environmental healthy technologies, products and packages. Our goal is that the activities within the product area will not cause any environmental effects or negative effects on people's health. The environmental aspects should be integrated in the daily business activities."

Trelleborg Rubber Flooring products are environmentally declared according to the environmental standard ISO 14021.

The product area fulfils the terms in valid permit decision according to the environmental section. Internal environmental audits are done on a regular basis.

The product area is certified according to ISO 14001, certificate number 1651 M.

The product

C¹ is a rubber flooring designed as a flooring material for use in a number of different environments. Installation can range from private homes to day-care centers, schools, restaurants, offices and hospital corridors. Especially suited are environments where high demands for design, durability and safety are required.

The rubber flooring is adhered to the surface with a water-based adhesive.

The product does not contain any substances listed in the Swedish National Chemical Inspectorate's observation list.

Material included in the rubber recipe (weight %)

Polymer 30-40 %	SBR (Styrene butadiene rubber)
Fillers 40-60 %	Chalk and kaolin which are won from the nature. Silica to get the highest wear resistance.
Plasticizer 5-20 %	Non-discoloring paraffin oils (highly aromatic oils are not used).
Coloring pigments 0,5-5%	
Curing agent 2-3 %	Contains no zinc oxide or accelerators that can form nitrosamines.

Emissions from the product

C¹ is tested according to the trade standard for emission measuring of volatile compounds from floor coverings. The standard includes newly manufactured not installed surface material. The trade standard has been worked out by Statens Provningsanstalt (test institute) and Golvbranchens Riksorganisation (flooring trade organization). Emission factor, TVOC after 26 weeks is 43 µg / (m² x h), which classifies C¹ as a flooring material of middle-emission. Newly installed floors emit a rubber smell, which will fade and disappear after a while.

Manufacturing process

C¹ is produced in a continuous process in three steps: mixing, calendering and vulcanization. After the vulcanization the floor is cut and packed in 15-meter rolls.

Production energy consumption

Mixing	ca	2 kWh/m ²
Calendering	ca	3 kWh/m ²
Vulcanization	ca	10 kWh/m ²
Totally:	ca	15 kWh/m ²

Air pollution

Air pollution is mainly curing fume, which is purified before letting it out into the atmosphere. A measuring program supervises the outlets.

Water pollution

Cooling water is used in closed systems. The water consumption for the flooring production is less than 10 tons/year.

Packaging

C¹ is rolled onto a paper bobbin in 15-meter rolls, which are packed in 0.1-mm protective polyethylene plastic. The rolls are delivered on wooden pallets of EUR-model. Trelleborg Industri AB is registered in REPA (a legal organization connected to the product responsibility for the collection and sorting of packaging).

Transports

Transports are made by truck. Deliveries are made straight from Trelleborg to flooring contractors or building sites.

Installation / Maintenance

Installation and maintenance instructions are packed with each roll. The rubber flooring should be maintained according to the enclosed maintenance instructions. C¹ requires no other maintenance than normal care and cleaning.

Joint sealing

C¹ can be sealed with a welding rod from Trelleborg Rubber Flooring. The welding rod is available in 40 standard colors.

Recycling

The rubber flooring can be removed mechanically for further energy consumption. We recommend that initial installation waste and removed material should be sent for energy recovery at combustion-able waste facilities capable of purifying gas fumes.

Others

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