

IP MARKETPLACE

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TECH OFFER

METHOD FOR PREPARING SELF- CLEANING, WATER- AND DIRT REPELLENT COATING ON A SUBSTRATE AND COATING PREPARED THEREOF



▶ MORE INFORMATION

MEGA-TREND

- Chemicals and Materials
- Environment and Water

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 4

PATENT/ GRANTED NUMBER

- PI 2018703705

▶ TECHNOLOGY OVERVIEW

A method for preparing self-cleaning, water- and dirt-repellent coating on a substrate, which comprises the steps of: stirring a mixture of polymer resin, curing agent and aqueous solvent at a speed of 300 to 350 rpm, at room temperature, under a pressure of 1 standard atmosphere, for a duration of 1 hour; exposing the mixture to ultrasound, at a temperature of 20 degree Celsius, for a duration of 20 minutes; applying a thin layer of the mixture on the substrate; and drying the coated substrate at room temperature for a

duration of 5 minutes to 24 hours. Also provided is a self-cleaning, water- and dirt-repellent coating prepared on a substrate by the above-mentioned method.

CONTACT US!

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