



Alternative ways to produce paper

Made by
Lorenzo Piacevoli and
Viviana Di Giorgio

1) Repap



Paper made from stones

What about the name?

The word “Repap” is composed by the same letters of the word “Paper”...They are just reversed! It means that even if the product is radically changed, we’re still talking about paper!

What about the components?



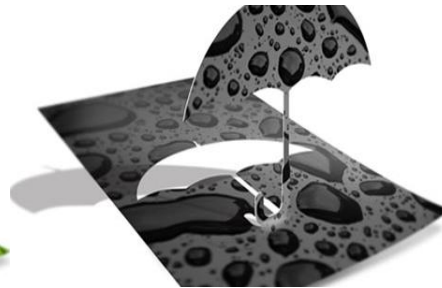
Repap is made up of 80% calcium carbonate (CaCO_3) and 20%, from non-toxic resins (high intensity polyethylene). The calcium carbonate present in Repap comes from the limestone recovered from caves and used in the construction industry. The calcium carbonate is reduced to a fine powder and the polyethylene acts as a binder, creating Repap, resistant and durable, as well as waterproof paper.

Features

TREE FREE



WATERPROOF



RESISTANT



ECONOMIC



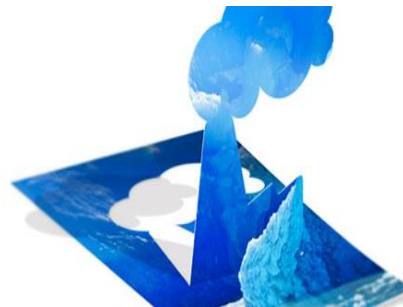
RECYCLABLE



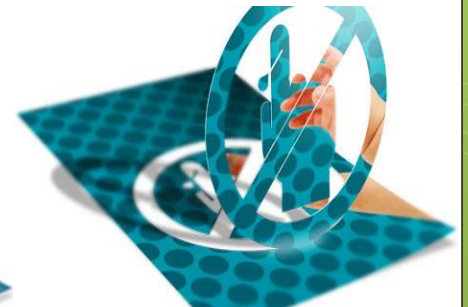
SOFT

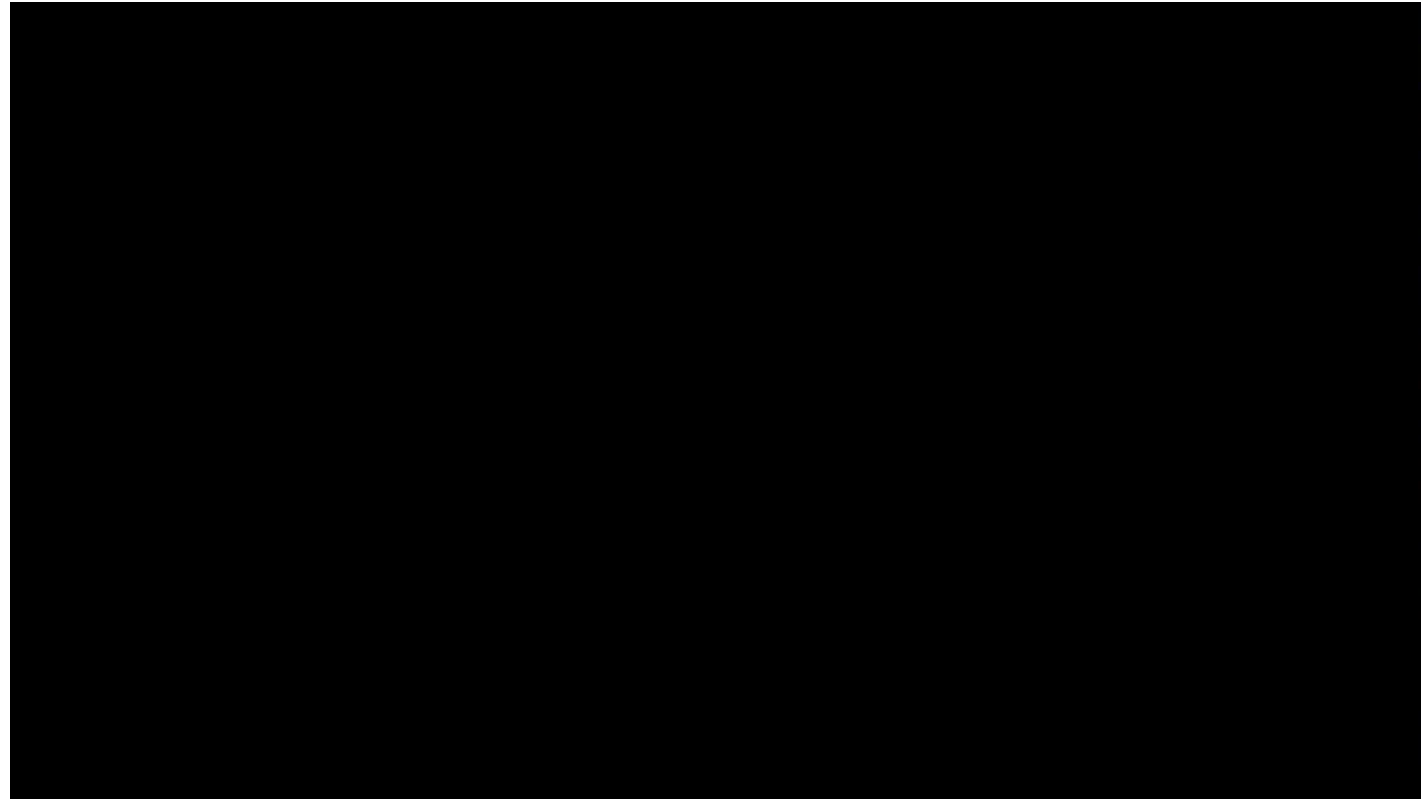


LESS CO2



SAFE





<http://www.repap.it/index-eng.php>

2) Shiro Alga Carta



Favini patented the product Shiro Alga Carta, a unique ecological paper produced from algal blooms. Originally, the paper was conceived as a way to use the damaging algae in the Venice Lagoon.

The process allows us to re-use pollutant material that is difficult to dispose of and at the same time we are also able to save pulp. The result is a unique high quality paper speckled with algae particles.

3) Paper made from apples

Alberto Volcan, an engineer in Bolzano, has patented a process of drying of apple cores and peeling them to produce flour that allows the production of paper and cardboard. From 50 kg of waste a ton of "Cartamela" is obtained. The paper is composed of 50-70% of flour apple and 50-30% of other recycled paper.

4) Paper made from plants

Among the plants used to produce paper are the herbaceous, such as straw, residues of grasses (corn, wheat and rice) and residues from cane and beet sugar.

These raw materials are still in the testing phase: for the moment their cost is higher than the traditional cellulose.



THANKS TO ALL!