

**SZ Magazin x OiKo**

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FROM ORGANIC WASTE  
TO DAILY USE PRODUCTS

**OiKo** Design Office

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INTRO



# THE STUDIO

## **Design and science for the transition towards circular economy.**

OiKo is a design office and materials consultancy firm focused on the transition towards circular economy. We design from the knowledge of the materials and the user's perception to solve our realities and offer more competitive products for the companies, more sustainable for the planet and more emotional for the user.

We understand sustainability in design, as the study of the environmental impact of both materials and energy, but also as a coherent response to the industrial, economical and brand needs.

With scientific rigor and creativity on the decision-making, we work on design and industrialization projects, new circular materials development, environmental consultancy and strategy.





# THE PROJECT

## **A new material from organic domestic waste.**

When we were invited to design a DIY product, we knew immediately that the project was going to be the material, and this material had to be made from waste that everyone had at home.

And what are the most common waste in German houses? Probably coffee grounds and potato peels.

Recycling these waste and adding two ingredients (cornstarch and a pinch of white glue) we've designed a new material that can be molded into countless objects using any element that you have at home as a mold.

We propose a fruit bowl, a lamp, a coaster... but free your creativity to give the material any shape you want!!





# POTATO PEELS





COFFEE GROUNDS





MATERIAL





A still life photograph featuring a dark, textured wooden bowl filled with various fruits. In the foreground, three bright orange citrus fruits are prominent, with a yellow-green apple partially visible on the right. A banana is tucked behind the oranges. The lighting is dramatic, coming from the upper right, which creates strong highlights on the fruit's surfaces and deep shadows within the bowl and on the background. The text "THE OBJECT" is centered over the middle of the image in a white, serif font.

# THE OBJECT



# FRUIT BOWL





LAMP





MORE



FLOWER TRAY



PHONE HOLDER



COASTERS





fava  
 cafe  
 aigua  
 vinagre  
 limona  
 glicerine.  
 ↓  
 boil.

A. 1 → forn.  
 A. 2 → Planxa

patata  
 f'cula  
 limona  
 vinagre  
 glicerine  
 ↓  
 Planxa.

B.

2. limona seca  
 g. pele patata.  
 g. f'cula  
 ml de limona  
 vinagre

→ minipimer.

C. 1. Forn  
 C. 2. Planxa

25g potato starch  
 25g cafe  
 10ml vinagre  
 25g glicerine  
 10. paper  
 30 aigua  
 ↓  
 minipimer.

E. 1 → forn.  
 E. 2 → forn.  
 E. 3 → forn.

25g. pele patata → minipimer.  
 50g f'cula patata  
 25g. cafe.  
 10ml vinagre  
 50 glicerine.  
 ↓  
 boil

F. 1

# HOW TO DO IT



# INGREDIENTS & TOOLS



POTATO PEELS



COFFEE GROUNDS



CORNSTARCH



BOWL



OVEN



COFFEE MAKER



SCISSORS



POTATO PEELER



WHITE WOOD GLUE

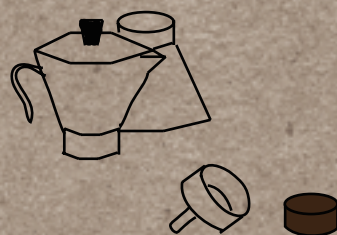


# COOKING THE MATERIAL

COFFEE



COFFEE GROUNDS



LET IT DRY 24H



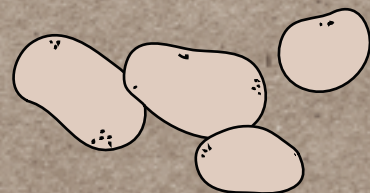
100g

CORNSTARCH



100g

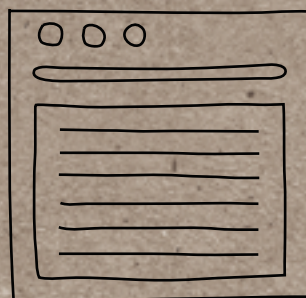
POTATOES



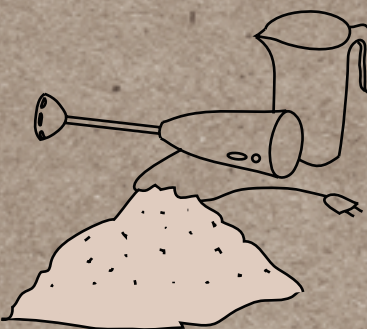
POTATO PEELS



COOK  
240' AT 70°C

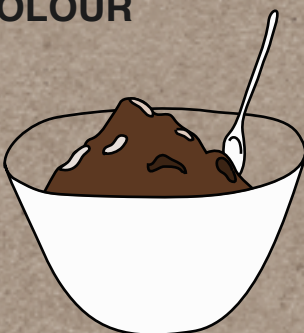


MAKE IT INTO  
POWDER



50g

MIX UNTIL IT  
BECOMES AN  
HOMOGENIC  
COLOUR



## RECIPE

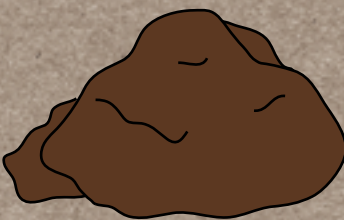
1. Mix all the solids
2. Add the glue
3. Blend until you feel it like clay

ADD WOOD  
COLD GLUE



100ml

KNEAD UNTIL THE  
INGREDIENTS ARE  
WELL COMBINED





# MOULDING THE OBJECT

MOLD



TURN UPSIDE DOWN



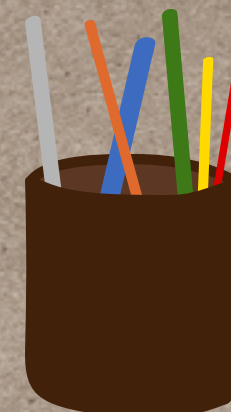
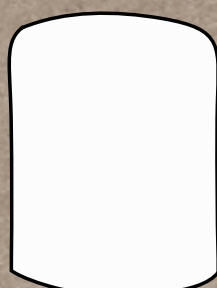
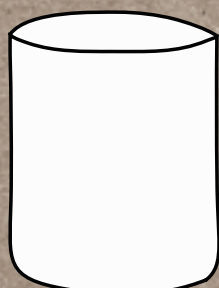
APPLY MATERIAL



UNMOLD AFTER 24H



USE IT!





# MAKING OF



A. 1/2 - 1/4  
+ 2ml of glycerol } Bake  
↓  
heat 15 mins.  
B.  
40g Café  
Potato starch 10g  
Sodium Bicarbonate 10g  
(Paprika 10g)  
C.  
Paper 12 ml

Café → 20ml  
Bicarbonat (2)  
fécule de patate (2)  
fécule de pois (2)  
Agar (2)  
limones (1)  
Dema → Glicerina (1)

Al Camp  
Carrefour  
Merce  
Sant







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