

Evaluation of the hydration efficacy *

**under dermatological control*

Study made by ZURKO RESEARCH S.L. from 07/23/2019 to 09/02/2019



**COSMOS
APPROVED**



SUMMARY OF THE STUDY

- **Product type:** Manicouagan clay.
- **Experimental area:** face, arms, legs, foot and hands.
- **Panel:** 20 volunteers with very dry skin, scaly skin
- **Duration of the study:** 14 days with dermatological and clinical controls (at D0, D+3, D+7, D+14)
- **Frequency of use:** Daily
- **Study objectives:** To determine the improvement capacity of dehydrated skin after the application of Manicouagan mud.

RESULTS - DERMATOLOGICAL ASSESSMENT OF TOLERANCE

Alterations due to the product (I)

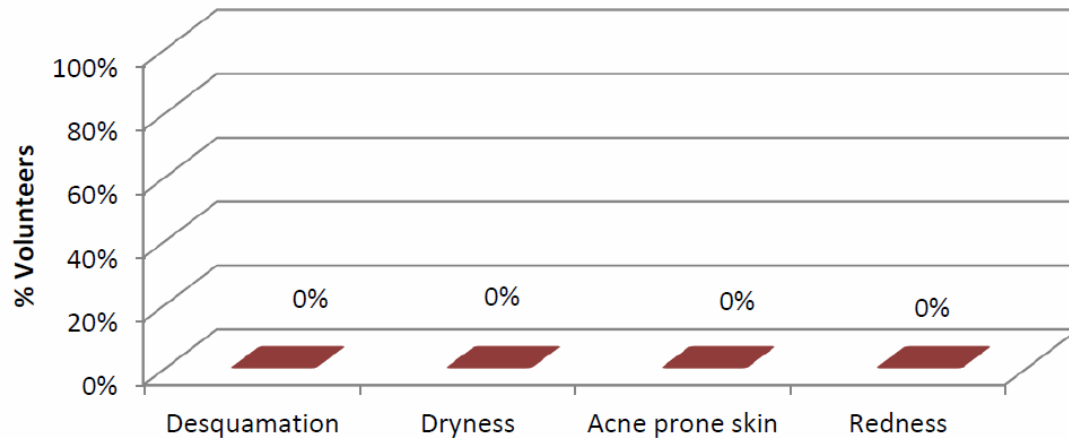


Figure 1. Alterations on the skin after the use of the product (n=22).

Alterations due to the product (II)

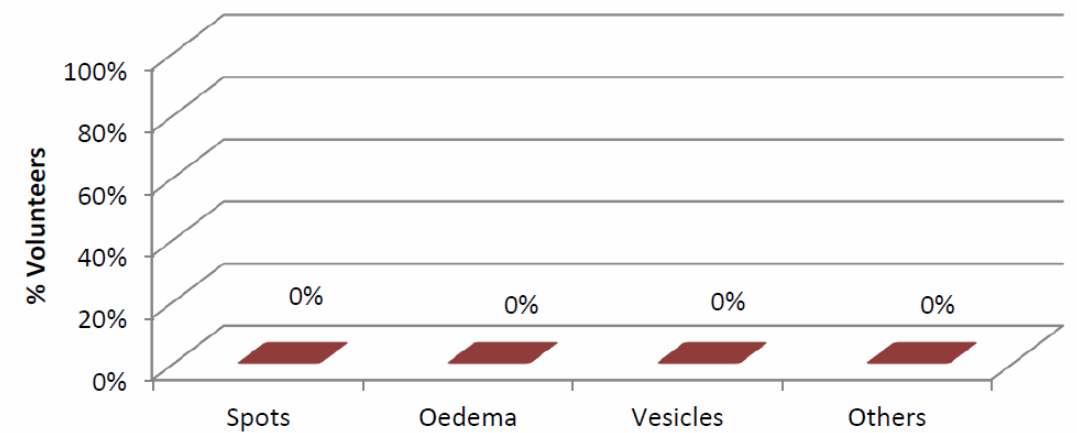


Figure 2. Alterations on the skin after the use of the product (n=22).

None of the volunteers showed any alterations after 14 days of continuous use of the product.

The product can claim “Tested under dermatological control”

RESULTS – HYDRATION EFFICACY

HYDRATION EFFICACY				
	D0	D3	D7	D14
Average	15,49	18,56	24,18	25,24
Standard deviation	11,10	9,29	13,16	11,80
% of variation relative to D0	-	20%	56%	63%
% of volunteers with improvement	-	77%	95%	100%
LINEAR MIXED-EFFECTS MODELS				
	D0	D3	D7	D14
Predicted average	15,49	18,56	24,18	25,24
Standard error	2,20	0,95	1,03	0,85
p -value	-	0,00	0,00	0,00
Significance	-	S	S	S

Table 1. Descriptive results and statistics for skin hydration after 3, 7 and 14 days the use of the product (n=22).

- 3 days after the application of the product, the skin hydration increases an average of 20% in relation to baseline. This difference is statistically significant with a p-value lower than 0.05.
- 7 days after the application of the product, the skin hydration increases an average of 56% in relation to baseline. This difference is statistically significant with a p-value lower than 0.05.
- 14 days after the application of the product, the hydration increases an average of 63% in relation to baseline. This difference is statistically significant with a p-value lower than 0.05.

RESULTS – HYDRATION EFFICACY

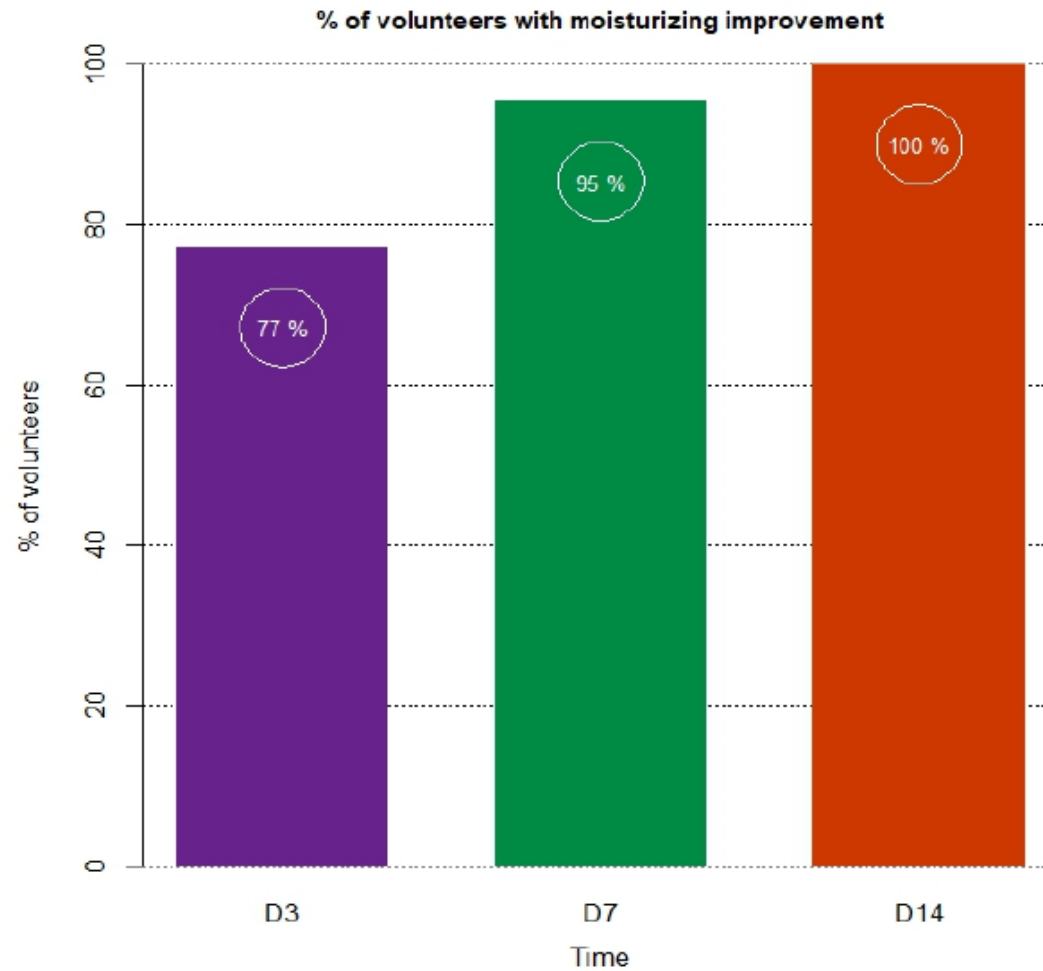
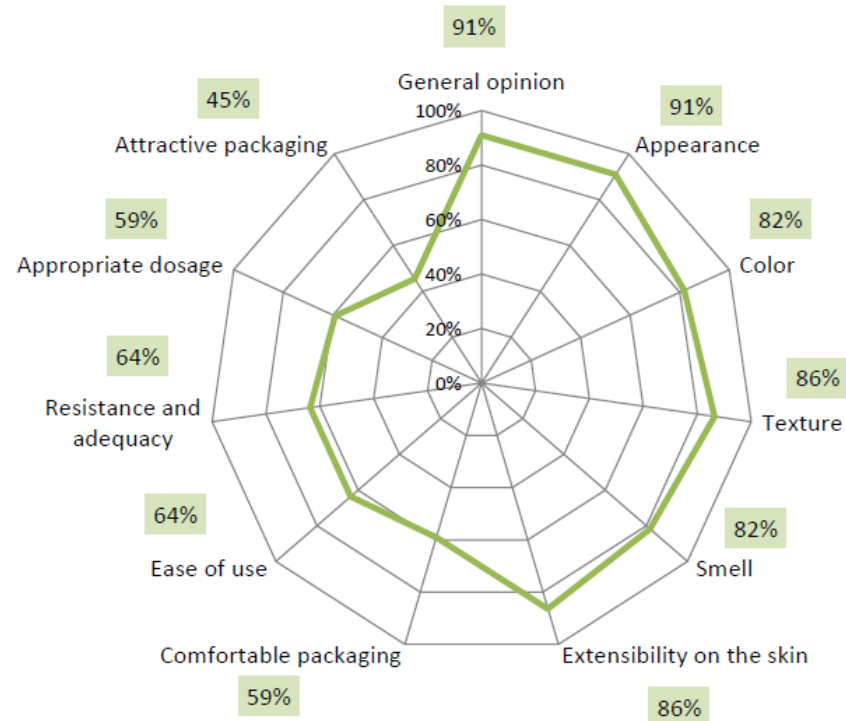


Figure 4. % of volunteers with improvement in skin moisturization.

RESULTS

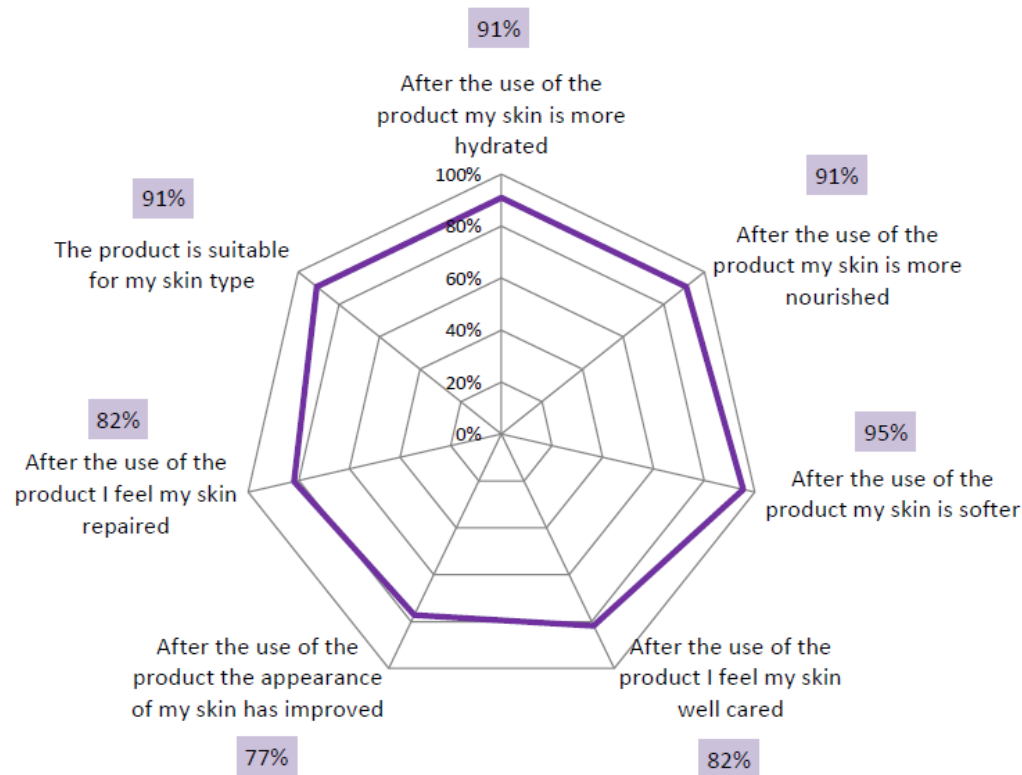
Global appreciation and organoleptic characteristics
(% Satisfied volunteers)



91% like the appearance of the product
82% like the color of the product
86% like the texture of the product
82% like the smell of the product
86% like the extensibility on the skin

RESULTS

Subjective Effectiveness (% Satisfied volunteers)

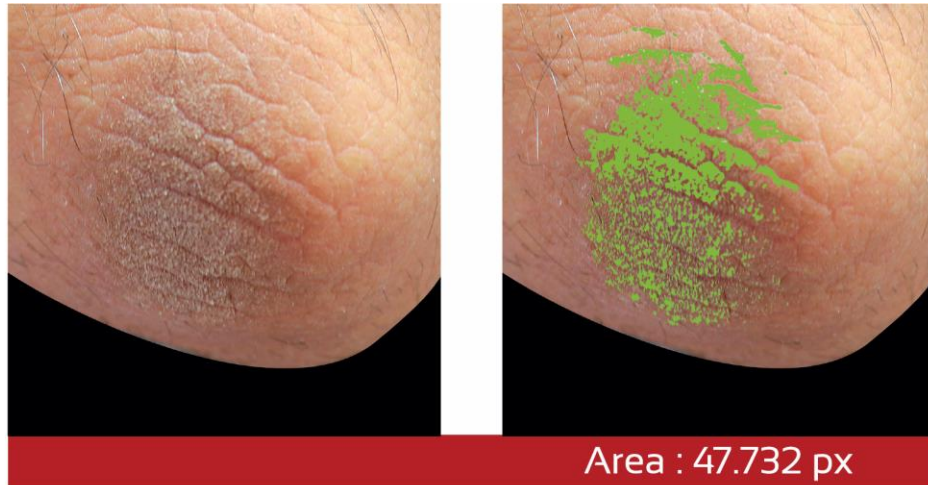


91% found their skin more hydrated after use
91% found their skin more nourished after use
95% found their skin more supple after use
91% found the product suitable for their skin
82% felt their skin repaired after use
77% found that the use of the product improved the appearance of their skin
91% of panelists in the study with very dry skin say that the product has fulfilled their expectations

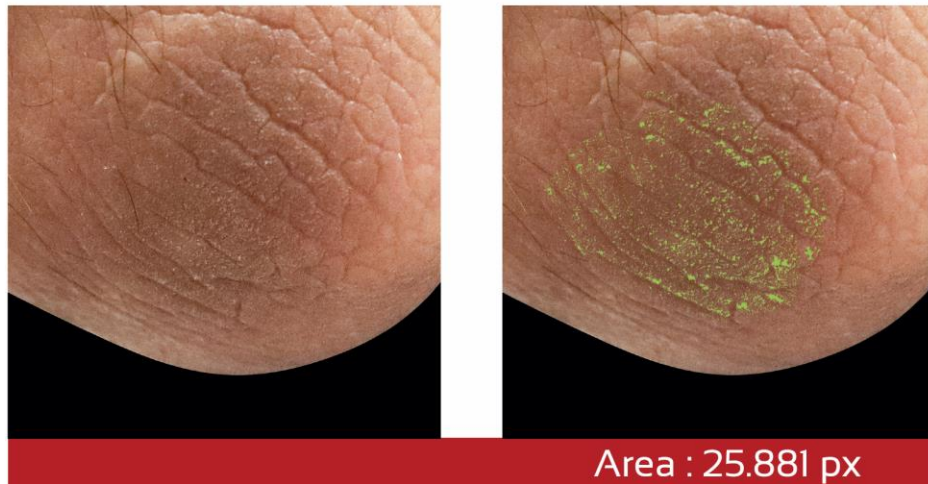
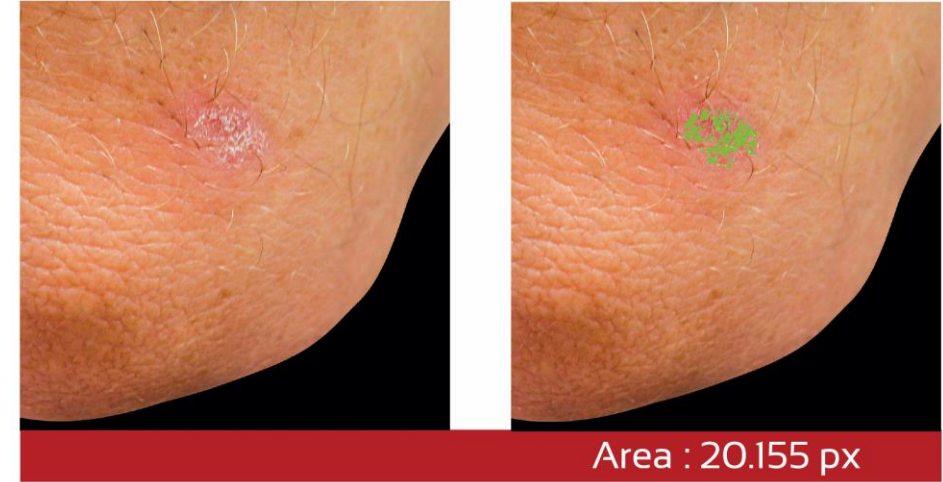
PICTURES



PICTURES



D0



D14



Decrease : 46%

Decrease : 96%