

DEVELOPED BY
QUIMICA COSMOS SECOND MAIN
COLOMBIAN
PAINT PRODUCER- ARCHROMA-SANITIZED
COLOMBIA

MOSQUITO PAINTS PROTECTION





MOSQUITO PAINT PROTECTION

- 80.000 Colombian people were infected in 2015
- Aedes Aegypti transmits Chikungunya, Yellow fever and dengue
- 90% of Colombian territory with mosquito presence
- 60 countries worldwide affected in Asia, Africa, Europe and Americas
- Chikungunya symptoms are fever, muscular pain, headaches and nausea



Actual situation

Necessity

Alternatives

Value Offer



MOSQUITO PAINT PROTECTION

Actual situation

- Reduce the impact of this virus
- Reduce the mosquito presence at human environment
- There is no treatment against Chikungunya, then contact prevention and mosquito growth rate control are crucial

Necessity

Alternatives

Value Offer





MOSQUITO PAINT PROTECTION

Actual situation

- Textile clothes and nets that protect the human skin.
- Repellents bases on DEET (N, N-diethyl-3-metilbenzamida) allowed to skin contact.
- Reduction of water deposits suitable for mosquito reproduction.
- Governmental campaigns, publicity and education to improve prevention.

Necessity

Alternatives

Value Offer

MOSQUITO PAINT PROTECTION

HUMAN NECESITY TO REDUCE THE IMPACT OF
YELLOW FEVER, DENGUE AND CHICUNGUÑA.
FUNCTIONAL PAINT WITH VECTOR REPELENCY

Well known knowledge about
Sanitized AM 23 24 applications
over military fabrics and nets



Permethrin vehicle Appretan 9205
acrylic copolymer similar to water
based paint resins



Toxicological knowledge about
permethrin concentration
allowed to skin contact



Swiss Tropical Institute
Institut Tropical Suisse
Schweizerisches Tropeninstitut
Médecine & Diagnostique



Actual situation

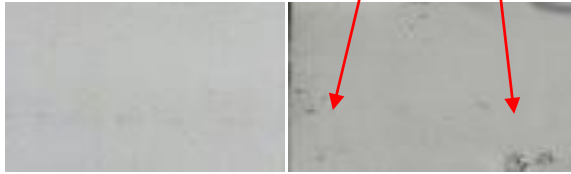
Necessity

Alternatives

Value Offer

RESEARCH AND DEVELOPMENT FINAL REPORT

Mosquito and Spider
presence evidence



Protected Unprotected

60 days
environmental
exposure over
concrete. Two layer
application.

Final Report Sanitized AG.

Description:

Customer would like to know amount of Permethrin per m² of painted surface.

Remarks:

Recipe:

Two samples were prepared:

- 2015-1016-01: application of 141.5g color on 0.5m²
- 2015-1016-02: application of 100g color on 0.5m²

The weight loss during drying of colour was determined to be 48.33% - meaning that 53.86% of dried color stay on the painted surface.

Results:

Calculation of Permethrin content based on analytical results:

Sample	Color wet on 0.5m ²	Color dry on 0.5m ²	Color dry on 1m ²	Permethrin content measured per kg of dry color	Permethrin content per m ² of painted surface
2015-1016-01	141.5g	76.21g	152.42g	3742 mg/kg	570 mg/m ²
2015-1016-02	100g	53.86g	107.72g	3711 mg/kg	400 mg/m ²

Date: 07.10.2015

Author: Rb

Ideal concentration
to obtain vector
repellency, even
spider repellency
was qualitative
realized.



POTENCIAL PAINT SALES OVER THE COUNTRIES WITH DENGUE ACTIVITY

Quimica cosmos sales projection to launch in 2016 is 200.000 usd Sanitized AM 2324. Conservative scenery.

Potential market applications in other countries are Hotels, kitchens, restaurants, veterinarian facilities and hospitals.

