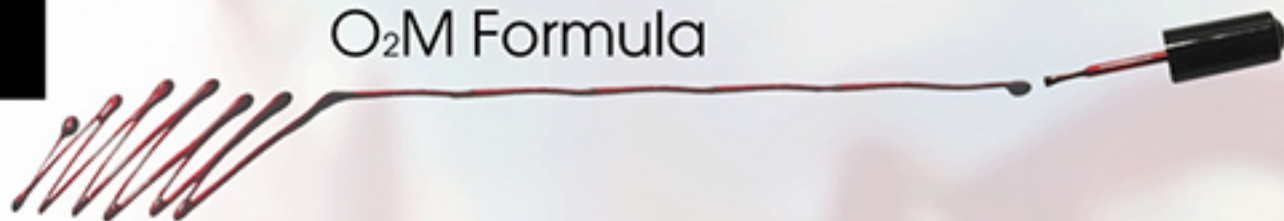


INGLOT

O₂M Formula



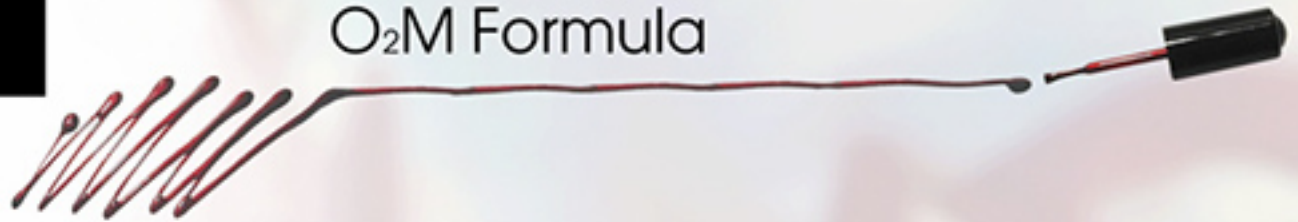
New technology **Permeable** polymer

O₂

MISA ONGLES

NAIL POLISH

ES DE UNAS



Food, stress, pollution, sun, cold, changes of seasons



disturb the cycles of growth and health of the nail.

The growth of an healthy nail is 0.1 mm/day

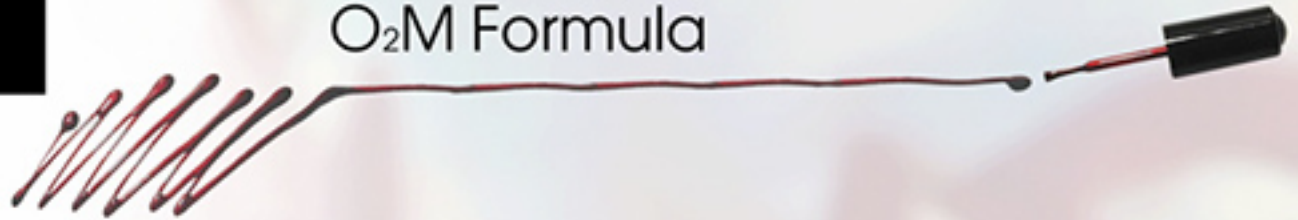
depends on the stable composition of the nail plate.

Besides the keratin structures are **very permeable (10 times higher than skin)** Needs

E_{xchanges} with **A**ir, more especially oxygen **O**₂.

Because of its chemical ingredients

The traditional nail polish leads to **an occlusive film** which affects this **permeability**.



**Solution : To use a permeable polymer
will improve the oxygen contribution**

How?

Copolymer of acrylic and silicon resin (KS2)

Technology and know-How from contact lens which require excellent aqueous and oxygen permeability.

Why?

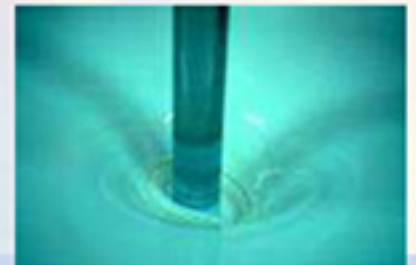
oxygen permeability is improved with the addition of resin KS2 in a nail polish formula

Base 156 : 28 (cm²/sec).(mLO₂/mlxmmHg)

Base 156 + KSO₂* (4%) : 33 (cm²/sec).(mLO₂/mlxmmHg)

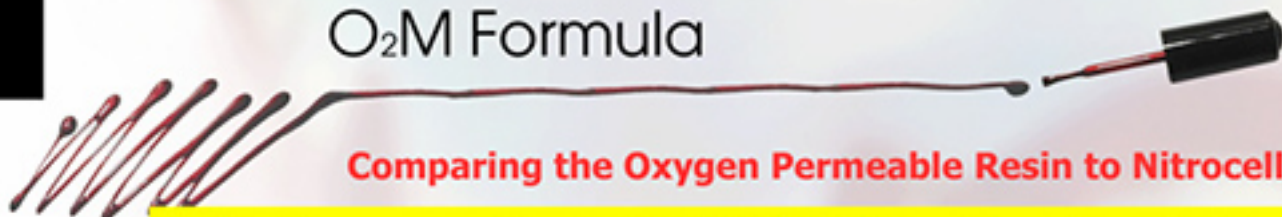
Base 156 + KSO₂* (8%) : 54 (cm²/sec).(mLO₂/mlxmmHg)

Base 156 + KSO₂* (12%) : 49 (cm²/sec).(mLO₂/mlxmmHg)



INGLOT

O₂M Formula

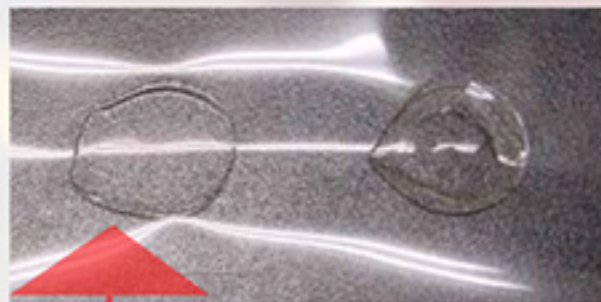


Comparing the Oxygen Permeable Resin to Nitrocellulose

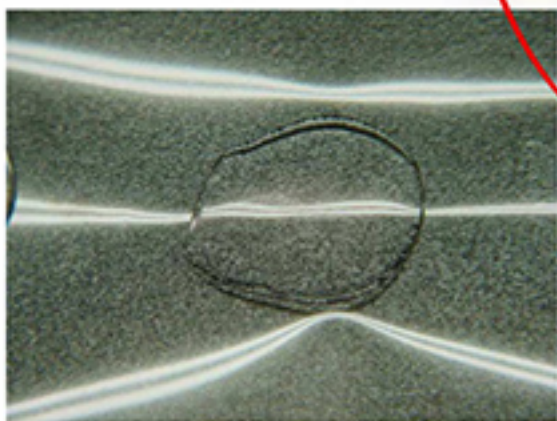
Left: Oxygen permeable resin (KS-02) Right: Nitrocellulose without KS-02



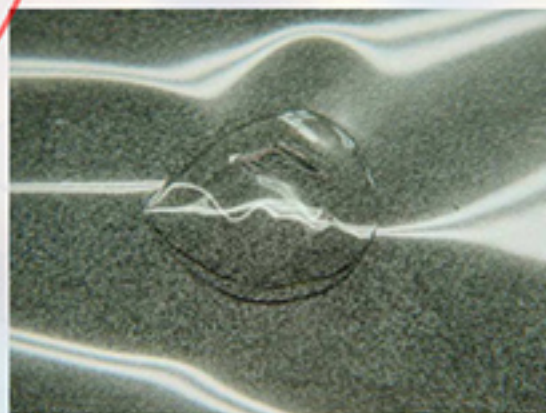
Before drying, each 0.25g drops



After 2 hours drying in 27°C, humidity 60%
Thickness: 25µm



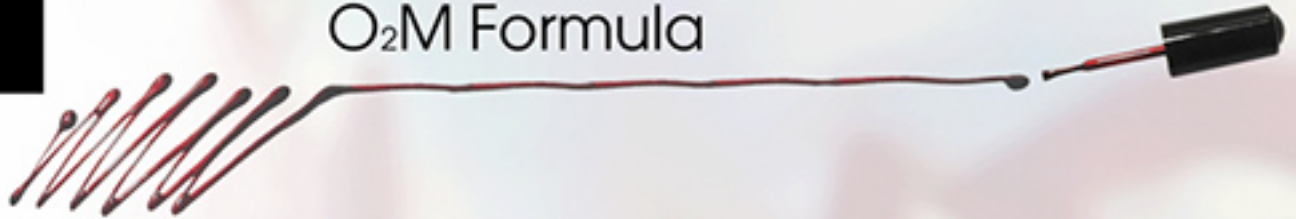
Oxygen permeable resin after drying



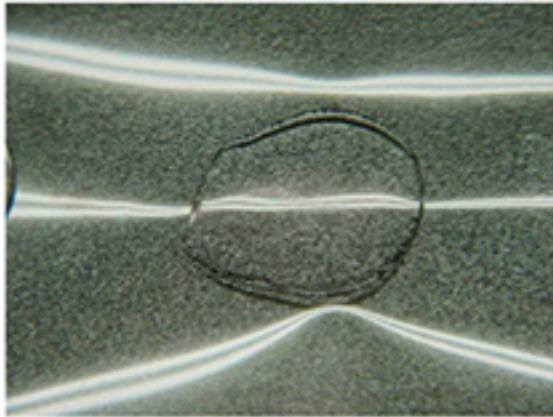
Nitrocellulose after drying

INGLOT

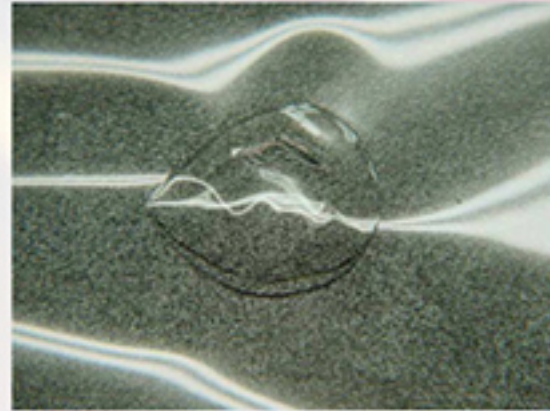
O₂M Formula



Comparing the Oxygen permeable resin to Nitrocellulose in shrinking



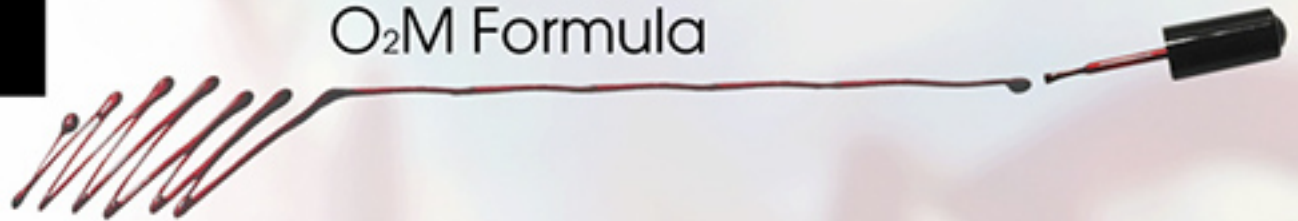
Oxygen permeable resin after drying



Nitrocellulose after drying

Added Value :

- good spreading of the nail polish
- for a beautiful finish and a comfortable feeling (less tight after drying).



"Nitrocellulose"

is typically used as an essential film former for nail enamel.

However, it imposes significant stress on the nail causing a cooped-up feeling because of its **Poor permeability in terms of Oxygen and Water vapor.**

"Permeable polymer"

1. Reduces nail stress
2. Having better aqueous permeability
3. better oxygenous permeability compared to nitrocellulose.
4. drying time – was also reduced as a secondary effect.