

NATURAL O/W SELF-EMULSIFIER

PRODHYBASE®
422 MB

NATURAL - EASY TO USE - SENSORIAL

◆ PRODHYBASE® 422 MB - O/W SELF-EMULSIFIER :

EASY TO USE - NATURAL - STABLE



Year after year, cosmetic market reinforces its **environmental commitments**. It has become a prerequisite to offer ingredients which **environmental impact is under control** and that **preserve biodiversity**.

Technical constraints are also increasing. Formulation process time is **under a strong reduction pressure** while maintaining high technical standards.

Prodhybase® 422 MB is our response : easy to use, this natural and vegan O/W self-emulsifier is **highly stable**, providing **hydration and unique sensoriality** to your formulas.

EASY TO USE

- **Low percentage** (3-6%)
- **Alone or in combination** with consistency factors
- **From fluid to thick** textures
- **One Pot process**
- Concentrated emulsion
- No need of high shear

NATURAL

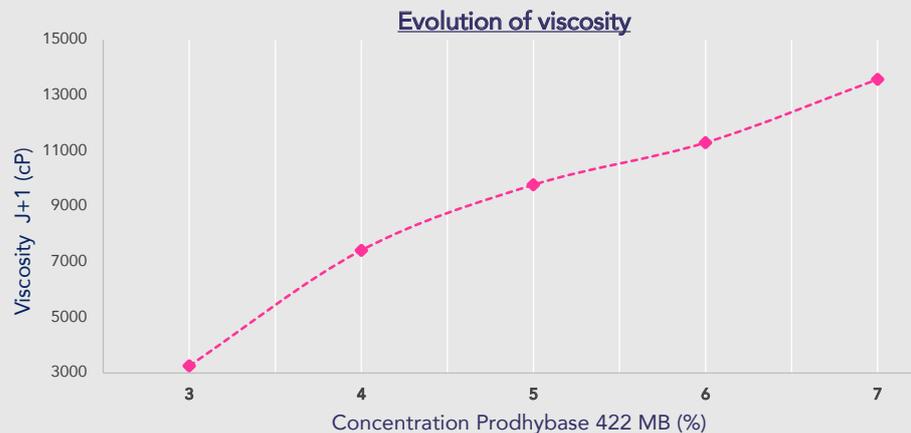
- PEG-free
- **100 % Natural origin** (as per ISO 16128)
- **COSMOS** approved
- **RSPO Mass Balance**
- **Vegan**
- Suitable for organic formulas

STABLE

- Non sensitive to heat
- Wide pH range : **5-11**
- Compatible with fatty ester (**up to 15 %**)
- Compatible with vegetable oils (**up to 30 %**)*
- Compatible with gelling agents

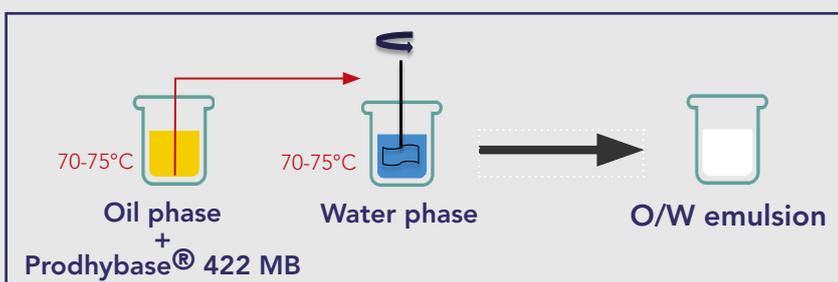
*Exception for castor oil (**up to 10%**) ; to be combined with a lower polarity oil (**40/60**).

Cetearyl alcohol provides **consistency** while fatty esters combination bring stability, allowing white and shiny textures. Polyglyceryl ester brings **emollience and a soft touch**.



Emulsion formulated with 20% of Jojoba oil and 0,8% of Prodhyséptine XB

FORMULATION PROCESS



Aspect	Solid beige
Dropping point	56-62°C
Use level	3-6%
HLB	9
pH	5-11
Solubility	Oil phase

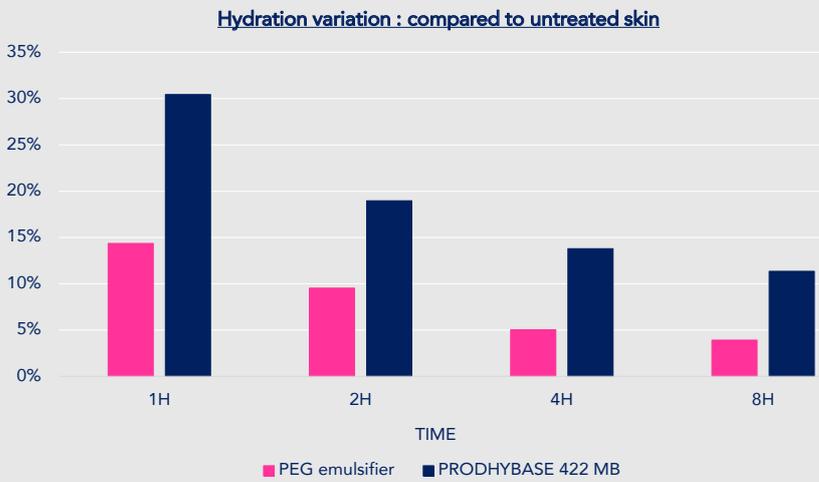
PRODHYBASE®422 MB - O/W SELF-EMULSIFIER : MOISTURIZING WITH UNIQUE SENSORIALITY

HYDRATION

In addition to its technical and sensory qualities, **Prodhabase®422 MB** self-emulsifier brings an **hydrating effect** to your formulas.

One hour after the first application, a 5% **Prodhabase®422 MB** formula improves **skin hydration by 30 %**. In average, skin hydratation with **Prodhabase®422 MB** is twice as important as with a PEG emulsifier.

The long lasting effect is visible on the graph below :



+30 % Hydration
1h after the first application
x 2 Hydration
Compared with PEG emulsifier

A **corneometry** test carried out on 11 volunteers during 8 hours ; measurements at 1h, 2h, 4h and 8h after the first application. All values are compared to untreated skin. p-value < 5 % statistically significant (Prodhabase®422 MB/ PEG emulsifier).

SENSORIALITY

Based on in vivo sensorial test, **Prodhabase®422 MB** composition brings not only high stability and ease of use, but also remarkable sensoriality and excellent affinity with the skin.



Sensory test with 5 % of **Prodhabase® 422 MB** formula (tested on 10 volunteers and evaluated after the first application).

PRODHYBASE[®] 422 MB - O/W SELF-EMULSIFIER :

CETEARYL ALCOHOL, GLYCERYL STEARATE CITRATE, POLYGLYCERYL-3 CAPRATE



COSMOS
APPROVED



Suitable for vegan cosmetics



COMPATIBILITIES

pH	5-11
Gelling agents	Xanthan Gum, Sclerotium Gum, Caesalpinia Spinosa Gum, Carrageenan
Vegetable oils	+++
Fatty esters	+++
Hydrocarbons	+
Preservatives	++
Electrolytes (NaCl)	Up to 1%
Prodhycore [®] AHA	Up to 0,5%

TECHNICAL DATA

Description	H/E self-emulsifier Optimized non ionic/ anionic blend
Aspect	Solid beige
Dropping point	56-62°C
Use level	3-6%
HLB	9
Solubility	Oil phase



APPLICATIONS

Skin Care
Body Care
Hair Care



BENEFITS

Naturality
Easy of use
Flexibility
Unique sensoriality

AVAILABLE ON DEMAND

TECHNICAL FILE/PRODHYBASE 422 MB FORMULAS

(*) : approved by Ecocert Greenlife according to Cosmos Standard available at <http://COSMOS.ecocert.com>

(**) : Licence number : 9-0807-14-100-00. Check our progress at <https://www.rspo.org/members/3242>

(***) : listed in IECIC 2021- Inventory of Existing Cosmetic Ingredients in China

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we personally care