



Vitamin U Complex

breakthrough in vascular skin care

Vitamin U Complex is an innovative raw material developed in the laboratory of Poplawska Group Sp. J. The unique combination of vitamin U and ambora extract has a beneficial effect on our skin: it soothes irritations, reduces erythema and improves the condition of blood vessels. This results from synthesising the soothing properties of rutin and epicatechin-rich ambora extract with the unique antihistamine action of vitamin U, isolated from the juice of raw cabbage leaves. Vitamin U, or S-methylmethionine, is a derivative of methionine, one of the essential amino acids that inhibit inflammatory skin reactions.

INCI

Tambourissa Trichophylla Leaf Extract, DL - Methionine Methylsulfonium Chloride, Glycerin, Aqua, Potassium Sorbate, Sodium Benzoate

properties

- restorative, regenerative - it accelerates the healing rate of damaged skin threefold by stimulating fibroblast growth.
- anti-inflammatory and anti-irritant
- reduces erythema
- facilitates the healing of wounds and burns
- antioxidant - prevents skin ageing
- regulating angiogenesis, resulting in minimised telangiectasia
- photoprotective effect
- improves skin elasticity and hydration

application

- recommended for use in all types of formulations: emulsions, liquids, ampoules, serums

advantages

- MOQ 1 kg
- Suitable for vegans and vegetarians
- ISO 16128 naturalness index close to 1
- Paraben-free
- No GMO

use

- recommended use: 0.3-1 %
- raw material added cold at the end of the process at a temperature below 40°C

technical data

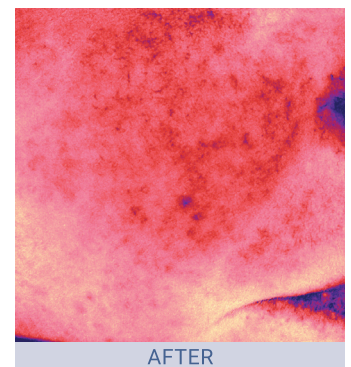
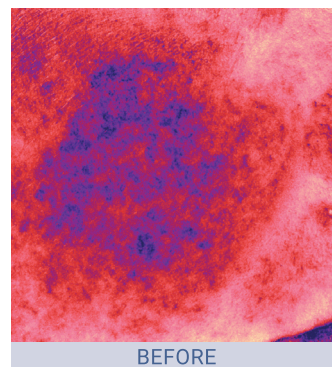
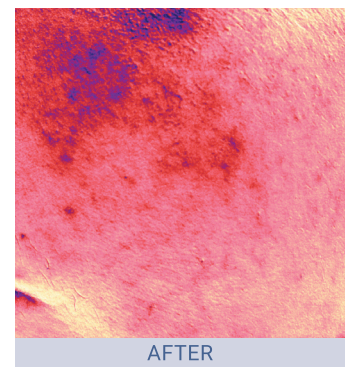
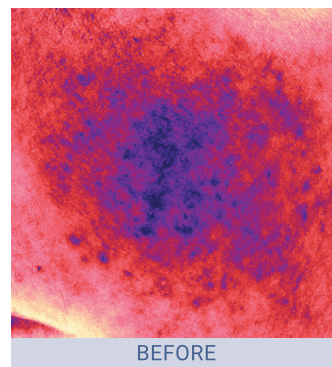
- brown liquid with a distinctive odour
- stable at temperatures up to 40°C
- pH 5.5-6.5

Recommended for

vascular skin
with erythema,
telangiectasias
and rosacea
after cosmetic procedures
and dermatological treatment
sensitive, mature, dehydrated
with vascular hyper-reactivity



reduction of blood vessels on cheeks after a month using Vitamin U Complex in cream

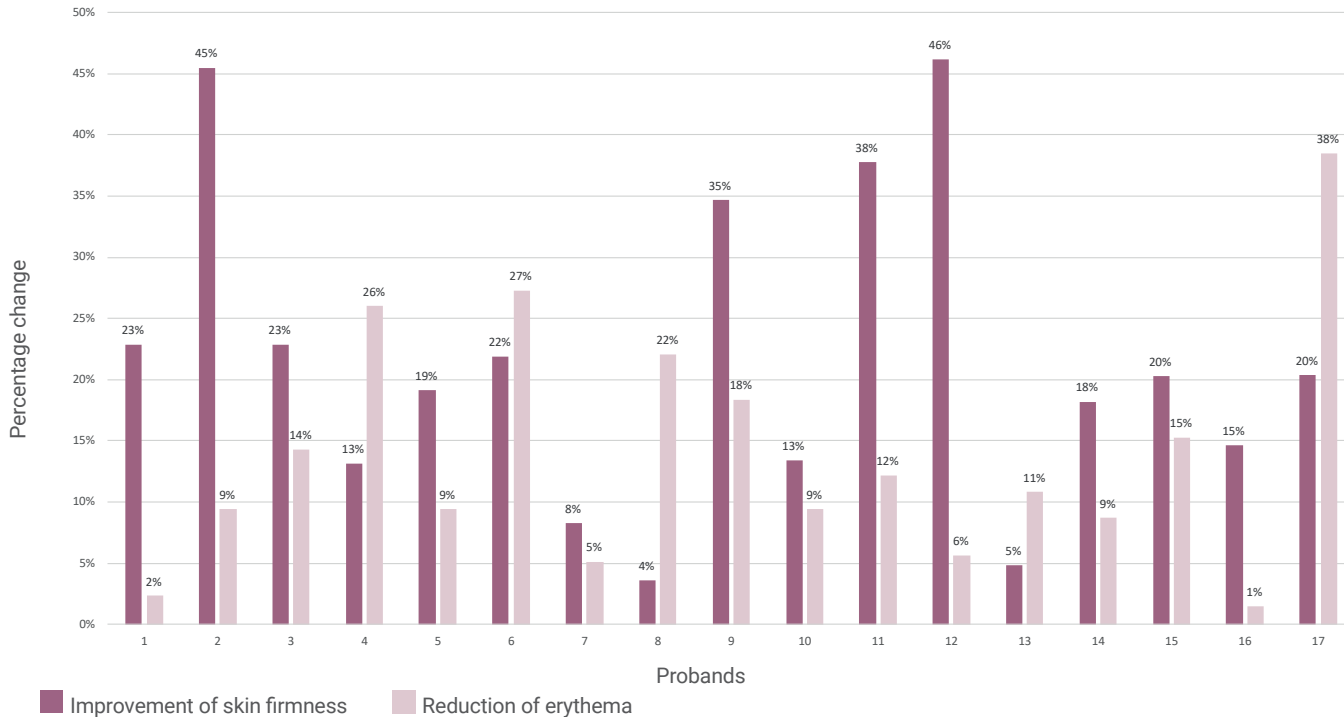


The images were taken with an ANTERA 3D camera (Miravex)

The effectiveness of Vitamin U Complex confirmed by tests:

- 100% of probands have proven **improvement in skin firmness**
- 100% of probands have proven **reduction in erythema**
- 95% of probands have proven **improvement in skin hydration**
- 75% of probands have proven **to reduce the appearance of blood vessels**
- 74% of probands have proven **reduction in skin temperature**
- 71% of probands have proven **improvement in skin elasticity**

Results of efficacy studies



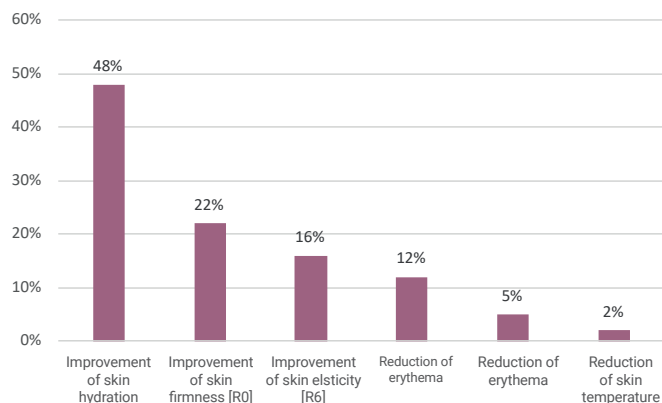
■ Effects after one month of use, measured with Cutometer® dual MPA 580 (Courage&Khazaka)

■ Effects after one month of use measured with ANTERA 3D (Miravex)

Use of Vitamin U Complex guarantees

- increase in skin hydration by **48%**
- improvement in skin firmness by **22%**
- improvement in skin elasticity by **16%**
- reduction in erythema by **12%**

Results of efficacy studies



Average results after use in cream for 30 days

FACE MASK

| PHASE | TRADE NAME | % |
|-------|--------------------------------------|------|
| A | Water | 60,3 |
| | Rheocare® XGN / Verdessence™ Xanthan | 0,4 |
| | Glycerine | 4,0 |
| | Dermofeel PA-3 | 0,2 |
| | ZEMEA_Propanediol | 3,0 |
| | KEM DHA | 0,8 |
| B | SP Crodacol CS90-MBAL-PA-(RB) | 2,0 |
| | Shea Butter | 3,5 |
| | Oilnat avocado | 11,5 |
| | Symbiomuls GC MB | 6,0 |
| | Ercawax GMS V | 1,5 |
| | Emolid CC | 2,0 |
| C | Vitamin U Complex* | 1,0 |
| | Azeloglycine | 1,0 |
| | Genecare® OSMS BA | 2,5 |
| | Fragrance composition | 0,3 |

*Popławska Group

technology

1. Add the ingredients of phase A to the main container, mix the whole system until a uniform mass is obtained, heat to 75°C, add the preservative and homogenize
2. Dissolve the ingredients of phase B in the auxiliary container at 80°C
3. The ingredients prepared in point. 2 add to the main container and start homogenization
4. Cool the whole system below 40°C and add the ingredients of phase C and mix them into the mass