



PolyAqual™ 2W
Dermo-Biosystem™

PolyAqual™-2W is a patented O/W polyglycerol-based self-emulsifier that is all naturally derived. This emulsifier is Ecocert and Cosmos approved. **PolyAqual™-2W** possesses a wide range of formulation compatibility while providing a unique skin feel to emulsions. On a more functional level, **PolyAqual™-2W** can generate highly organized liquid crystals important to provide stability to the emulsion and to ensure compatibility with the skin. **PolyAqual™-2W** was shown to prevent and repair damage caused to the skin barrier function by UV exposure and to regulate the skin microbiota.

Technical information

- **INCI:** Polyglyceryl-2- Stearate, Glyceryl Stearate, Stearyl Alcohol
- O/W emulsions
- Self emulsifying wax, flakes
- Emulsion without co-emulsifier addiction
- Can be added to the water phase or the oil phase of an emulsion
- HLB-independent
- Electrolyte tolerant
- Forms liquid crystals
- Compatible with various oils, esters and thickeners
- Recommended use level: 1-5%
- Wide range of pH (3-9)

Efficacy

- Prevention of UV-induced damage to the skin barrier
- Repair of compromised skin barrier function
- Selective restoration of the cutaneous microflora

Applications

- Skin care
- Sun care
- Hair care
- Make-up

Clinical actions of PolyAqual™-2W on skin barrier function

Liquid crystals

