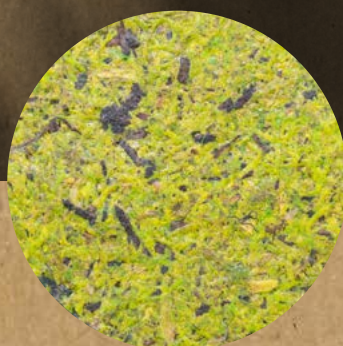


natpad®

NATURE MEETS SKIN



natpad®

Vision



We bring your valuable active ingredients to your customers' skin with our patented technology. Multisensory storytelling is a natural and authentic innovation for your customers.

Jehart Martin

Jehart Martin,
CEO Naturepad GmbH



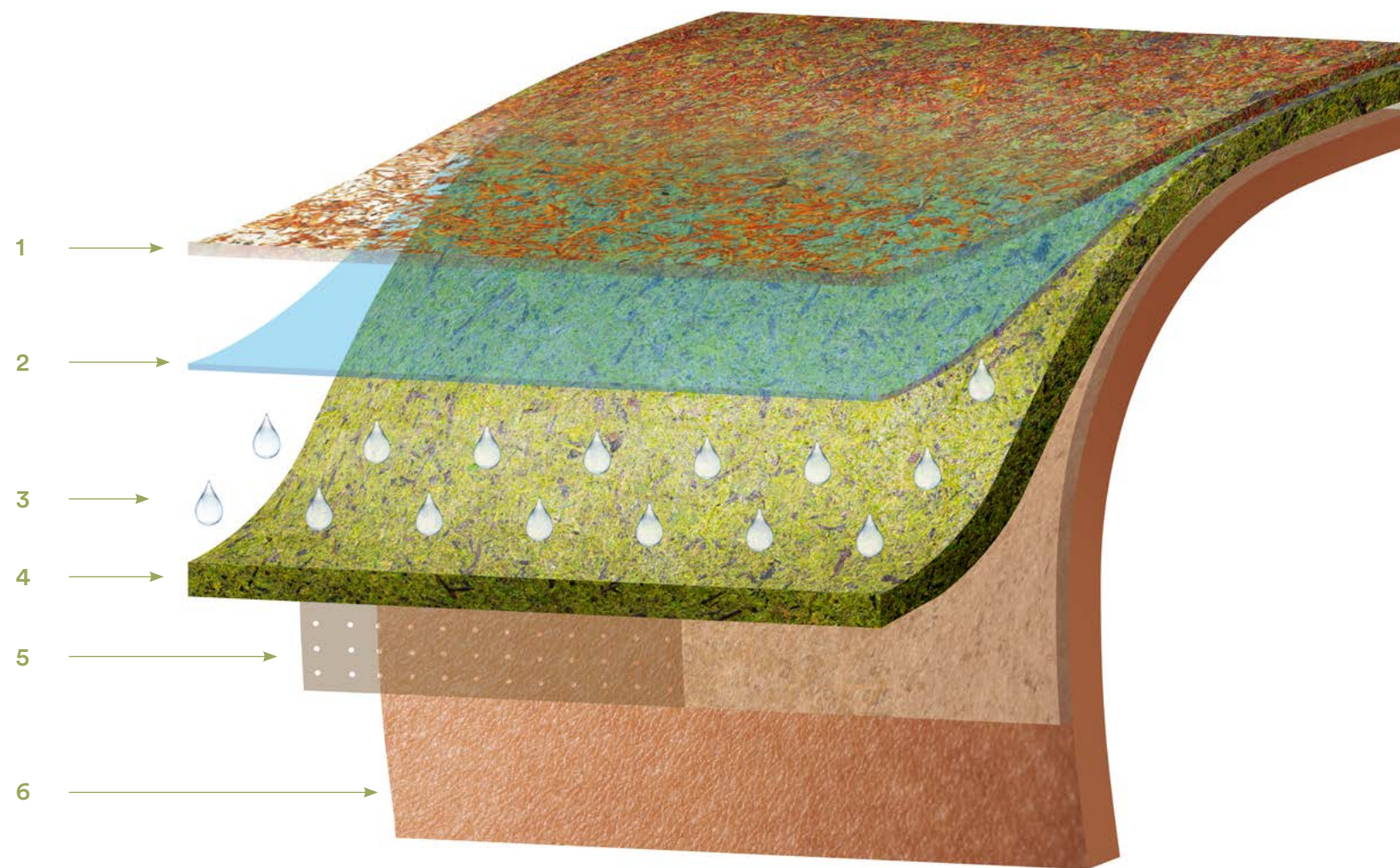
The natpad® is a self-adhesive
transdermal application system.
The core layer of natural moss and
the top layer of active substance-
correlating plants, credibly
enhance the effect.

See. Feel. Smell.
Believe. → Effect. → Heal.

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Technology

With the help of the patented natpad® technology, the core layer of natural moss is prepared so that it can be loaded with active substances.



1. NATURAL TOP LAYER

The top layer of plant parts can correlate with the active ingredient, e.g. a top layer of coffee powder and the active substance caffeine.

The organic materials of the top layer, with their visual, haptic and olfactory appearance, reinforce the active substances, which are thus perceived far more intensively than just via the illustration of the plant on the packaging.

In addition, the top layer tells authentic stories about the active substances and their origin.

2. SEALING

The sealing prevents the unwanted emission of the active substances to the environment.

3. ACTIVE SUBSTANCES

Practically any active substance can be processed - in liquid or powder form.

As a cooperation development, we formulate the right balance with your active substances if required.

4. CORE LAYER

Moss is a natural storage medium with a remarkable absorption capacity. Active substances are absorbed, stored and released again. These properties make moss the core of natpad®.

5. DOSING AND ADHESIVE LAYER

The intensity and duration of the active substance release can be defined via the design of the dosing layer. The adhesion of the pad to the skin is ensured with dermatologically safe adhesives.

6. SKIN

The human skin absorbs the active substances.

Structure in 3 examples

MOSS AS
CORE LAYER



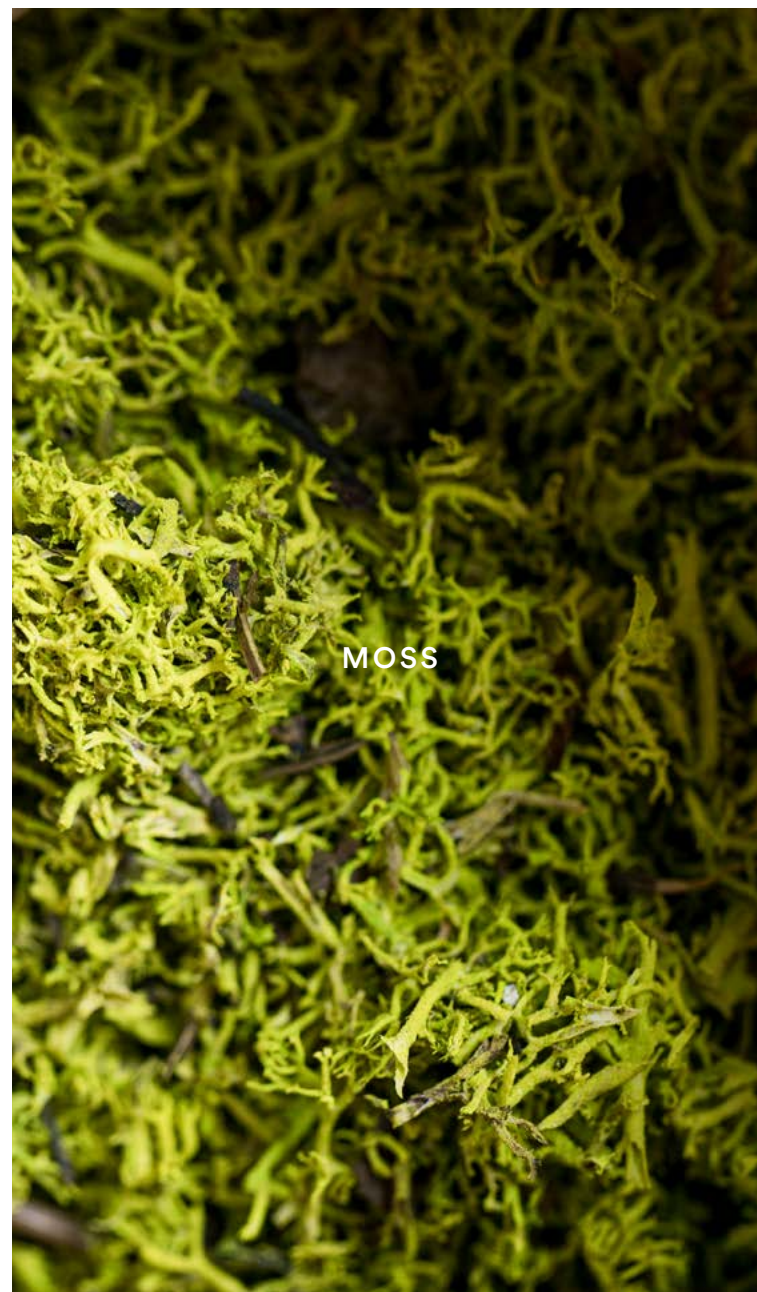
NATURAL ACTIVE
SUBSTANCES



CORRELATING
TOP LAYERS



INDIVIDUAL
FORMS



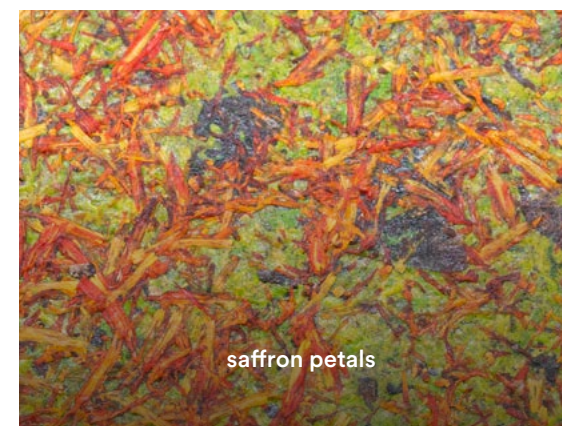
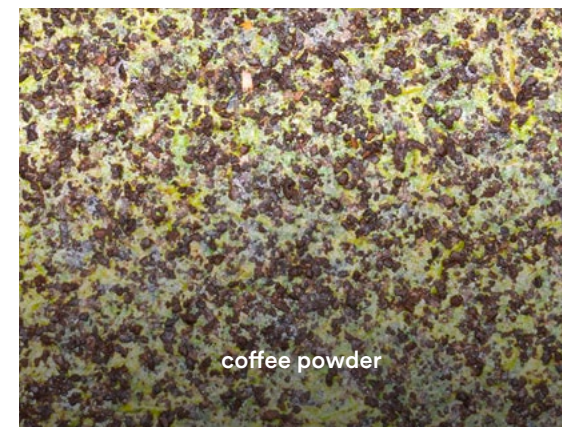
caffeine + taurine



CBD



extract mixture
of capsicum, field mint,
saffron



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Example #1

3 cups of coffee on the wrist

- > PERFORMANCE-ENHANCING
- > STIMULATING
- > ENERGISING

Full of energy all day.

Top layer:

Coffee powder on moss

Duration of effect:

6 hours

Main active substances:

300 mg caffeine per 20 cm²

Positioning:

at the pulse, e.g. carotid artery
or wrist inside

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Example #2

Ready. Set. Go!

- > MUSCLE ACTIVATING
- > WARMING

Be able to call up power immediately.

Top layer:

Saffron petals on moss

Duration of effect:

30 minutes

Main active substances:

Capsicum, field mint and saffron on 38 cm²

Positioning:

on the thigh muscle or
in a painful place

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Example #3

Supercharge me!



- > RELAXING
- > CALMING
- > RECOVERING

Chill out and sleep tight.

Top layer:

cut hemp leaves on moss

Duration of effect:

10 hours

Main active substances:

12 mg CBD per 15 cm²

Positioning:

at the pulse, e.g. carotid artery
or wrist inside

Facts

- > PCT patent publication
WO 2021/219255 dated 04.11.2021
- > dosing and adhesive layer certified
according to EN ISO 10993-5 and 10993-10
suitable for direct adhesion to human skin
- > production according to GMP guidelines in
accordance with EN ISO 22716:2007
- > dermatologically safe
- > latex-free
- > water vapour permeable

ADHESION POWER

up to 20 N per 25 mm at contact time
24 hours (following AFERA 5001)

PERMEABLE TRANSITION AREA

5–100 %

PAD SIZE

1 cm² up to 200 cm²

TOTAL PRODUCT THICKNESS

0.4–2.0 mm

SOURCE MATERIAL

jumbo coil 125 cm width x 200
running metres on 3“ or 6“ core

FORMATION

- > lifting and rotary die-cutting
- > kiss-cutting
- > island dressing
- > laser-cutting

USUAL MATERIAL

WEIGHT UNLOADED

50–1000 g/m²

LOADING CAPACITY

up to 1000 % of the product weight

TENSILE STRENGTH

60 N/5 cm

ELONGATION

up to approx. 45 %

SUBMISSION CAPACITY TO THE SKIN

- > can be controlled via the dosing and
adhesive layer
- > depending on the active substance,
65–85 % of the loading capacity within
6 hours until body saturation is reached.

DURATION OF EFFECT

- > doseable from 15 min. to 7 days

STORAGE

- > steam-tight packed: 12 months
store protected from light and
dry between 0 °C and +25 °C
- > unpacked ready for use: approx. 1 %
charge loss per 10 days over edge,
liner and top layer (tested in ventilated
climate chamber at +25 °C)

VEGAN

CLIMATE-NEUTRAL PRODUCTION IN AUSTRIA



natpad®

Competence with natural surfaces

Naturepad GmbH is a subsidiary of Organoid Technologies GmbH, which has established itself as the world market leader for natural surfaces for interior design over the last 10 years. With, currently, 25 employees, the production capacity is up to 100 m² per hour. The idea for natpad® matured from the experience and knowledge gained from hundreds of successful international projects.

Now is the right time to bring nature even closer to people - directly onto their skin!



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Contact



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natpad®

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