

Supplementary Materials

Supplementary Material SI – Cosmetic product information

SI – Technical information of marine-derived cosmetic product

Table S1. Organoleptic characteristics and technical description of cosmetic products available on the market which have marine collagen ingredients.

| Commercial name | INCI name | Producer | Use level (%) | Soluble collagen content (%) | Organoleptic characteristics |
|--|--|--|---------------|------------------------------|---|
| AC Marine Collagen PF | Soluble collagen (98%), leuconostoc/radish root ferment filtrate | Active concepts | 1.0 - 10.0 | 1.0 | Hazy viscous liquid |
| Pancogene marin 2 | Aqua, soluble collagen, phenoxyethanol | Gatefosse | 2.0 - 5.0 | 0.3 | Opalescent liquid |
| Collagen CLR (extracted from calf skin in a weakly acidic buffer without using enzymes) | Soluble collagen sodium benzoate | CLR Chemisches Laboratoriu m Dr. Kurt Richter GmbH | 3.0 – 10.0 | 0.5 | Transparent, colourless to yellowish, at room temperature slightly viscous liquid |
| Collasol™ M PE | Aqua, soluble collagen | Croda | - | 0.5 | - |
| Maricol S (Tuna) | Aqua, soluble collagen, sodium benzoate | Croda | - | 0.1 – 1.0 | Water-clear, almost transparent, viscous liquid, almost odourless |

| | | | | | |
|------------------------------------|---|--|-----------|-----------|---|
| Ichtyocollagene | Aqua, propyleneglycol, soluble collagen | Sederma | 2.0 – 6.0 | 0.4 – 0.7 | Clear to slightly opalescent pale yellow liquid |
| Bio-marine collagen 6PH | Soluble collagen | Cobiosa | 0.5 – 5.0 | 5.0 – 7.0 | - |
| Collaplex 1.0 | Aqua, soluble collagen, phenoxyethanol, methylparaben, ethylparaben | Gfn-Selco | - | 1 – 1.3 | Opaque, viscous solution |
| Collaplex 1.0 PHE | Aqua, soluble collagen, phenoxyethanol | Gfn-Selco | 1.0 – 5.0 | - | - |
| Marine collagen | Aqua, soluble collagen | I.R.A. Istituto Ricerche Applicate | 0.5 – 5.0 | 3.0 | - |

Supplementary Material SII - Subject selection

S2 - Subjects' information

The subjects were selected according to following inclusion and exclusion criteria.

Inclusion criteria for Group I: Gender: Female/Male; Age: 18 years old and over; Having signed an Informed Consent Form (ICF); Willingness, ability and likeliness to comply with all the study procedures and restrictions; Available for the entire study duration; Understanding Portuguese language: Portuguese-speaking subjects capable of reading the documents;

Exclusion criteria for Group I: Known allergy or known history of hypersensitivity to the components of the investigational products, comparative products, controls and/or related compounds; Currently participating in another clinical study that may interfere with the study; having diseases that may impair the study; Under pharmacological treatments that may impair the study; - Having applied any type of topical product on the test region (forearms) within the 24 h preceding the first performance study visit; Diagnosed skin diseases and/or cutaneous alterations on the test region (forearms) that can impair the study (E.g. scars, tattoos, marks, burns, excessive body hair); Pregnancy or intention to conceive during the study; Breast-feeding.

Subjects' general health data (including diseases and frequent medication), consumer habits and concomitant medications are recorded on the Case Report Form (CRF).

The following instructions and advice were given to the included subjects:

- Subjects must not apply any topical product (cosmetic, pharmaceutical or otherwise) in the evaluation area (forearms), since the 24 hours that precede the first performance study visit (including cosmetic products such as hydrating products, body lotions, shower gels, soaps, etc) and until the end of the study;
- On the first performance study visit, subjects will remain for approximately 9 hours in a temperature and humidity-controlled room; during this time, food and drinks will be provided to all subjects according to their needs;
- In case of adverse events, subjects should inform immediately the research centre;
- Subjects must inform the Investigators in case of any change in their health status or medication;
- Female subjects must inform the Investigators if they become or are found to be pregnant during participation in the study;
- Male subjects must inform the Investigators if their partner becomes or is found to be pregnant during the subject's participation in the study;
- Subjects must address to the study facilities at the scheduled date and time;
- Subjects should be careful in washing their hands as to avoid splashes of water with detergents/soaps/gels during the study performance;
- Subjects must not wash their forearms during the study performance;
- Subjects should keep the forearms exposed (not covered with clothes) and avoid touching with the volar part of the forearm in any surface during the first 9 hours of the study;

- During the study performance, subjects must not have bath and shall avoid the direct contact of water and cleansing products with the forearms;

S2.1 - Subject' age

Table S2.1 – Information regarding the subject' age

| Subject # | Subject ID | Subjects' Age on recruitment day |
|-----------|------------|----------------------------------|
| 1 | 1 | 41 |
| 2 | 2 | 58 |
| 3 | 4 | 30 |
| 4 | 5 | 40 |
| 5 | 6 | 32 |
| 6 | 9 | 49 |
| 7 | 12 | 55 |
| 8 | 13 | 64 |
| 9 | 14 | 44 |
| 10 | 15 | 36 |
| 11 | 16 | 40 |
| 12 | 18 | 37 |
| 13 | 19 | 19 |
| 14 | 20 | 60 |
| 15 | 21 | 51 |
| 16 | 23 | 29 |
| 17 | 24 | 61 |
| 18 | 25 | 27 |
| 19 | 26 | 32 |
| 20 | 27 | 23 |
| 21 | 28 | 40 |
| 22 | 29 | 45 |
| 23 | 30 | 33 |

| | |
|---------------|---------------|
| | |
| Mean \pm SD | 41 \pm 12.6 |

S2.2 - Diseases

Table S2.2 – Information regarding the subject' diseases

| Subject ID | Diseases | |
|------------|------------------------------------|--|
| | Do you have any diagnosed disease? | If yes, specify: |
| 1 | No | |
| 2 | No | |
| 4 | No | |
| 5 | No | |
| 6 | No | |
| 9 | No | |
| 12 | No | |
| 13 | No | |
| 14 | Yes | Asthma; Hypertension; Allergic rhinitis |
| 15 | No | |
| 16 | Yes | Bipolar disorder |
| 18 | No | |
| 19 | No | |

| | | |
|----|-----|----------------------------|
| 20 | No | |
| 21 | No | |
| 23 | Yes | Hypertension |
| 24 | No | |
| 25 | No | |
| 26 | No | |
| 27 | No | |
| 28 | Yes | Chronic ulcerative colitis |
| 29 | Yes | Chronic hives |
| 30 | No | |

S2.3 - Allergies

Table S2.3 – Information regarding the subject' allergies

| Subject ID | Allergies | | | |
|------------|------------------------------------|------------------|--|------------------|
| | Do you have any diagnosed allergy? | If yes, specify: | Have you ever had any allergy or intolerance to [cosmetic products | If yes, specify: |

| | | | or medicines]? | |
|----|-----|---------------|----------------|--|
| 1 | No | | No | |
| 2 | No | | No | |
| 4 | No | | No | |
| 5 | No | | No | |
| 6 | No | | No | |
| 9 | Yes | Rhodium | No | |
| 12 | No | | No | |
| 13 | No | | No | |
| 14 | No | | No | |
| 15 | No | | No | |
| 16 | No | | No | |
| 18 | No | | No | |
| 19 | Yes | Fleas | No | |
| 20 | No | | No | |
| 21 | Yes | Milk | No | |
| 23 | Yes | Penicillin | No | |
| 24 | No | | No | |
| 25 | Yes | Metals, sweat | No | |

| | | | | |
|----|-----|--------------------|-----|------------------------|
| 26 | Yes | Pets' hair, Pollen | Yes | Product with retinoids |
| 27 | No | | No | |
| 28 | No | | No | |
| 29 | Yes | Dust | No | |
| 30 | No | | No | |

S2.4 – Exposure to sunlight, UV light and pollution

Table S2.4 – Information regarding the subject' exposure to sunlight, UV light and pollution

| Subject ID | Exposure to sunlight, UV light and pollution | | |
|------------|--|-------------------------|--|
| | Daily sunlight exposure: | Frequency of solariums: | Frequency of locals with high levels of pollution (eg.: a lot of smoke or dust): |
| 1 | Rare | Null | Rare |
| 2 | Rare | Null | Rare |
| 4 | Rare | Null | Rare |
| 5 | Rare | Null | Rare |
| 6 | Rare | Null | Rare |
| 9 | Sporadic | Null | Rare |

| | | | |
|----|----------|------|----------|
| 12 | Rare | Null | Rare |
| 13 | Rare | Null | Rare |
| 14 | Rare | Null | Rare |
| 15 | Rare | Null | Rare |
| 16 | Rare | Null | Sporadic |
| 18 | Rare | Null | Rare |
| 19 | Rare | Null | Rare |
| 20 | Rare | Null | Rare |
| 21 | Rare | Null | Rare |
| 23 | Sporadic | Null | Rare |
| 24 | Sporadic | Null | Rare |
| 25 | Rare | Null | Rare |
| 26 | Rare | Null | Rare |
| 27 | Rare | Null | Null |
| 28 | Rare | Null | Rare |
| 29 | Sporadic | Null | Null |
| 30 | Rare | Null | Rare |

S2.5 – Consumption patterns

Table S2.5 – Information regarding the subject' consumption patterns

| Subject ID | Consumption patterns | | | | |
|------------|----------------------|---|--|-----------------------|----------------|
| | Smoke habits: | If yes, approximately, for how long (years) | If yes, approximately how many cigarettes do you smoke per day | Alcohol intake: | Coffee intake: |
| 1 | No | | | Once to twice a month | Never |
| 2 | No | | | Frequent | Daily |
| 4 | No | | | Very rarely or never | Daily |
| 5 | No | | | Very rarely or never | Never |
| 6 | No | | | Once to twice a week | Never |
| 9 | No | | | Very rarely or never | Daily |
| 12 | No | | | Once to twice a week | Daily |
| 13 | No | | | Once to twice a week | Daily |
| 14 | No | | | Very rarely or never | Never |
| 15 | No | | | Very rarely or never | Daily |
| 16 | Yes | 20 years | 5 to 10 days | Once to twice a week | Daily |
| 18 | No | | | Once to twice a month | Never |
| 19 | No | | | Once to twice a month | Never |
| 20 | No | | | Very rarely or never | Never |

| | | | | | |
|----|-----|----------|---------|-----------------------|-------|
| 21 | No | | | Once to twice a week | Daily |
| 23 | No | | | Once to twice a month | Daily |
| 24 | No | | | Once to twice a month | Daily |
| 25 | Yes | 10 years | <5 days | Once to twice a week | Daily |
| 26 | No | | | Once to twice a month | Daily |
| 27 | No | | | Once to twice a month | Daily |
| 28 | No | | | Once to twice a week | Daily |
| 29 | No | | | Very rarely or never | Never |
| 30 | No | | | Once to twice a month | Never |

S2.6 – Concomitant Medication

Table S2.6 – Information regarding the subject' concomitant medication

| Subject ID | CM No. | Medication name (Record 'specify Generic or Brand' name) | Start Date | Stop Date | Ongoing at the end of the study? | Reason for use (Enter related AE diagnosis, or other reasons for use, e.g. Prophylaxis) | Dose (units) | Route | Frequency |
|------------|--------|---|------------|-----------|----------------------------------|---|--------------|-------|-----------|
| 14 | 1 | Pulmicort | NK/NK/2017 | - | Yes | Asthma | 1 | Oral | 2x/day |
| 14 | 2 | Bisoprolol | NK/09/2018 | - | Yes | Hypertension | 1 | Oral | 1x/day |
| 15 | 1 | Minigeste | NK/09/2011 | - | Yes | Contraceptive | 1 | Oral | 1x/day |
| 16 | 1 | Diplexil | NK/NK/1999 | - | Yes | Bipolar disorder | 1 | Oral | 1x/day |
| 16 | 2 | Seroquel | NK/09/2009 | - | Yes | Bipolar disorder | 1 | Oral | 1x/day |
| 16 | 3 | Triminulet | NK/NK/2010 | - | Yes | Contraceptive | 1 | Oral | 1x/day |
| 18 | 1 | Gynera | NK/NK/2002 | - | Yes | Contraceptive | 1 | Oral | 1x/day |
| 23 | 1 | Indapamide 1.5 mg | NK/02/2019 | - | Yes | Hypertension | 1 | Oral | 1x/day |
| 23 | 1 | Azalia | NK/11/2018 | - | Yes | Contraceptive | 1 | Oral | 1x/day |

| | | | | | | | | | |
|----|---|-------------------|------------|---|-----|----------------------------|---|---------|----------------|
| | | | | | | e | | | |
| 25 | 1 | Minigeste | NK/NK/2009 | - | Yes | Contraceptive | 1 | Oral | 1x/day |
| 26 | 1 | Benzoyl Peroxide | 15/10/2019 | - | Yes | Acne | 1 | Topical | 1x/day |
| 28 | 1 | Budenofalk | NK/NK/2016 | - | Yes | Chronic ulcerative colitis | 1 | Rectal | Every two days |
| 29 | 1 | Yaz | 01/10/2017 | - | Yes | Contraceptive | 1 | Oral | 1x/day |
| 29 | 2 | Atarax | 01/02/2019 | - | Yes | Rhinitis | 1 | Oral | 1x/day |
| 29 | 3 | Bisoprolol 2.5 mg | 15/09/2019 | - | Yes | Tachycardia | 1 | Oral | 1x/day |
| 30 | 1 | Daylette | NK/NK/2010 | - | Yes | Contraceptive | 1 | Oral | 1x/day |

Supplementary Material SIII – Products weight

analysis S3.1 - Investigational Products Weight

Table S3.1 – Information regarding the F4 weight

| F4 | | |
|------------|-------------|-------------------|
| Subject ID | Product No. | Weight at t0 (mg) |
| 1 | 1 | 13.9 |

| | | |
|----|---|------|
| 2 | 1 | 13.9 |
| 4 | 1 | 14.2 |
| 5 | 1 | 13.9 |
| 6 | 1 | 14.0 |
| 9 | 1 | 14.1 |
| 12 | 1 | 14.0 |
| 13 | 1 | 14.0 |
| 14 | 1 | 13.9 |
| 15 | 1 | 13.9 |
| 16 | 1 | 14.1 |
| 18 | 1 | 14.0 |
| 19 | 1 | 14.0 |
| 20 | 1 | 14.1 |
| 21 | 1 | 14.1 |
| 23 | 1 | 13.9 |
| 24 | 1 | 14.0 |
| 25 | 1 | 13.9 |
| 26 | 1 | 14.0 |
| 27 | 1 | 13.9 |
| 28 | 1 | 14.1 |
| 29 | 1 | 13.9 |
| 30 | 1 | 13.9 |

Table S3.2 – Information regarding the F1 weight

| Product F1 | | |
|------------|-------------|-------------------|
| Subject ID | Product No. | Weight at t0 (mg) |
| 1 | 1 | 13.9 |
| 2 | 1 | 14.0 |
| 4 | 1 | 13.9 |
| 5 | 1 | 14.0 |
| 6 | 1 | 14.0 |
| 9 | 1 | 14.0 |
| 12 | 1 | 13.9 |
| 13 | 1 | 14.1 |
| 14 | 1 | 14.0 |
| 15 | 1 | 14.1 |
| 16 | 1 | 14.1 |

| | | |
|----|---|------|
| 18 | 1 | 13.9 |
| 19 | 1 | 13.9 |
| 20 | 1 | 13.9 |
| 21 | 1 | 14.1 |
| 23 | 1 | 13.9 |
| 24 | 1 | 13.9 |
| 25 | 1 | 14.1 |
| 26 | 1 | 14.0 |
| 27 | 1 | 14.1 |
| 28 | 1 | 13.9 |
| 29 | 1 | 13.9 |
| 30 | 1 | 13.9 |

Table S3.3 – Information regarding the F2 weight

| F2 | | |
|------------|-------------|-------------------|
| Subject ID | Product No. | Weight at t0 (mg) |
| 1 | 1 | 14.1 |
| 2 | 1 | 13.9 |
| 4 | 1 | 14.0 |
| 5 | 1 | 13.9 |
| 6 | 1 | 14.1 |
| 9 | 1 | 13.9 |
| 12 | 1 | 14.1 |
| 13 | 1 | 13.9 |
| 14 | 1 | 13.9 |
| 15 | 1 | 14.1 |
| 16 | 1 | 13.9 |
| 18 | 1 | 13.9 |

| | | |
|----|---|------|
| 19 | 1 | 13.9 |
| 20 | 1 | 14.1 |
| 21 | 1 | 13.9 |
| 23 | 1 | 13.9 |
| 24 | 1 | 14.0 |
| 25 | 1 | 13.9 |
| 26 | 1 | 14.1 |
| 27 | 1 | 14.1 |
| 28 | 1 | 14.0 |
| 29 | 1 | 14.1 |
| 30 | 1 | 14.0 |

Table S3.4 – Information regarding the F3 weight

| F3 | | |
|------------|-------------|-------------------|
| Subject ID | Product No. | Weight at t0 (mg) |
| 1 | 1 | 14.0 |
| 2 | 1 | 14.1 |
| 4 | 1 | 14.1 |
| 5 | 1 | 14.1 |
| 6 | 1 | 13.9 |
| 9 | 1 | 14.1 |
| 12 | 1 | 13.9 |
| 13 | 1 | 13.9 |
| 14 | 1 | 14.1 |
| 15 | 1 | 13.9 |

| | | |
|----|---|------|
| 16 | 1 | 14.0 |
| 18 | 1 | 13.9 |
| 19 | 1 | 13.9 |
| 20 | 1 | 14.1 |
| 21 | 1 | 14.0 |
| 23 | 1 | 14.0 |
| 24 | 1 | 14.1 |
| 25 | 1 | 14.1 |
| 26 | 1 | 14.1 |
| 27 | 1 | 14.0 |
| 28 | 1 | 14.1 |
| 29 | 1 | 14.0 |
| 30 | 1 | 13.9 |

Supplementary Material SIV – Temperature and relative humidity in vivo

assay S4.1 – Temperature and relative humidity

Table S4.1 – Information regarding the temperature (°C)

| Subject ID | T0* | T0** | T24 |
|------------|------|------|---------|
| 1 | 22.0 | - | 23.9*** |
| 2 | 23.7 | 23.7 | 23.5 |

| | | | |
|---|------|------|---------|
| 4 | 22.0 | . | 24.0*** |
| 5 | 23.3 | 23.3 | 23.6 |
| 6 | 22.5 | - | 23.9*** |
| 9 | 24.0 | 24.0 | 23.7 |
| 12 | 22.4 | - | 23.8*** |
| 13 | 23.7 | 23.7 | 23.7 |
| 14 | 22.2 | 22.2 | 24.9*** |
| 15 | 23.4 | 23.4 | 23.6 |
| 16 | 23.7 | 23.7 | 23.9 |
| 18 | 23.1 | 23.1 | 23.3 |
| 19 | 22.3 | - | 24.0*** |
| 20 | 24.0 | 24.0 | 23.8 |
| 21 | 22.9 | 22.9 | 23.5 |
| 23 | 23.9 | 23.9 | 23.9 |
| 24 | 23.5 | 23.5 | 23.6 |
| 25 | - | 24.0 | 24.6 |
| 26 | - | 24.0 | 24.8 |
| 27 | - | 24.0 | 24.5 |
| 28 | - | 24.0 | 24.3 |
| 29 | - | 23.9 | 24.0 |
| 30 | - | 24.0 | 24.3 |
| *1 st group values considered for the hydration evaluation of time-points 2h, 4h and 8h after products' application ** 2 nd group: values considered for the hydration evaluation at time- point 24h after products' application ***Values not considered for the mean values | | | |

Table S4.2 – Information regarding the relative humidity (%)

| Subject ID | T0* | T0** | T24 |
|------------|------|------|---------|
| 1 | 59.8 | - | 45.9*** |
| 2 | 46.8 | 46.8 | 47.3 |
| 4 | 60.0 | - | 45.4*** |
| 5 | 50.3 | 50.3 | 44.3 |
| 6 | 59.9 | - | 47.4*** |
| 9 | 45.4 | 45.4 | 46.8 |
| 12 | 59.9 | - | 48.4*** |
| 13 | 46.8 | 46.8 | 47.4 |
| 14 | 60.0 | - | 45.4*** |
| 15 | 49.3 | 49.3 | 47.3 |
| 16 | 46.8 | 46.8 | 47.4 |
| 18 | 50.3 | 50.3 | 44.2 |
| 19 | 59.9 | - | 47.4*** |
| 20 | 45.4 | 45.4 | 46.9 |
| 21 | 52.3 | 52.3 | 46.3 |
| 23 | 46.9 | 46.9 | 47.4 |
| 24 | 46.4 | 46.4 | 46.3 |
| 25 | - | 59.9 | 60.9 |
| 26 | - | 60.0 | 61.1 |
| 27 | - | 59.1 | 61.0 |
| 28 | - | 59.1 | 62.0 |
| 29 | - | 60.0 | 59.2 |
| 30 | - | 60.0 | 60.9 |

*1st group values considered for the hydration evaluation of time-points 2h, 4h and 8h after products' application
 ** 2nd group: values considered for the hydration evaluation at time-point 24h after products' application
 ***Values not considered for the mean values

Table S4.3 – Information regarding the raw data temperature (°C)

| Subject ID | T0* | T0** | T2 | T4 | T8 | T24 |
|------------|------|------|------|------|------|---------|
| 1 | 22.7 | - | 23.3 | 23.7 | 23.7 | 23.9*** |
| 2 | 23.9 | 23.9 | 23.3 | 23.1 | 23.2 | 23.8 |
| 4 | 23.5 | - | 23.6 | 23.6 | 23.4 | 23.4*** |
| 5 | 23.7 | 23.7 | 23.8 | 23.6 | 23.6 | 23.5 |
| 6 | 23.8 | - | 23.8 | 23.8 | 23.0 | 23.8*** |
| 9 | 23.6 | 23.6 | 23.7 | 23.2 | 23.8 | 23.9 |
| 12 | 24.0 | - | 23.9 | 23.8 | 23.3 | 23.7*** |
| 13 | 24.0 | 24.0 | 23.3 | 23.3 | 23.6 | 23.6 |
| 14 | 23.8 | - | 23.6 | 23.8 | 23.4 | 23.8*** |
| 15 | 23.6 | 23.6 | 24.0 | 23.7 | 23.4 | 23.9 |
| 16 | 23.9 | 23.9 | 23.3 | 23.3 | 23.8 | 24.0 |
| 18 | 23.3 | 23.3 | 23.7 | 23.5 | 23.3 | 23.6 |
| 19 | 23.9 | - | 23.7 | 24.0 | 23.0 | 24.0*** |
| 20 | 23.7 | 23.7 | 23.8 | 23.4 | 23.8 | 24.0 |
| 21 | 23.6 | 23.6 | 23.8 | 23.7 | 23.8 | 23.5 |
| 23 | 23.7 | 23.7 | 23.6 | 23.4 | 23.9 | 24.0 |
| 24 | 24.0 | 24.0 | 23.6 | 23.4 | 23.8 | 23.8 |
| 25 | - | 24.0 | - | - | - | 24.5 |
| 26 | - | 23.6 | - | - | - | 25.3 |
| 27 | - | 24.0 | - | - | - | 24.5 |

| | | | | | | |
|--|---|------|---|---|---|------|
| 28 | - | 23.4 | - | - | - | 25.0 |
| 29 | - | 23.6 | - | - | - | 25.3 |
| 30 | - | 24.0 | - | - | - | 24.6 |
| *1 st group values considered for the hydration evaluation of time-points 2h, 4h and 8h after products' application ** 2 nd group: values considered for the hydration evaluation at time-point 24h after products' application ***Values not considered for the mean values | | | | | | |

Table S4.4 – Information regarding the raw data relative humidity (%)

| Subject ID | T0* | T0** | T2 | T4 | T8 | T24 |
|------------|------|------|------|------|------|---------|
| 1 | 60.0 | - | 59.9 | 60.0 | 56.9 | 46.9*** |
| 2 | 46.4 | 46.4 | 46.8 | 50.8 | 50.3 | 46.3 |
| 4 | 59.0 | . | 59.3 | 59.9 | 56.3 | 46.8*** |
| 5 | 46.8 | 46.8 | 51.4 | 47.3 | 48.4 | 45.8 |
| 6 | 58.7 | . | 60.0 | 60.0 | 56.2 | 47.4*** |
| 9 | 50.4 | 50.4 | 48.9 | 48.8 | 48.9 | 46.9 |
| 12 | 58.7 | - | 58.7 | 60.0 | 56.7 | 47.9*** |
| 13 | 46.9 | 46.9 | 47.3 | 50.3 | 49.4 | 46.8 |
| 14 | 58.1 | - | 59.3 | 59.6 | 56.3 | 46.3*** |
| 15 | 46.3 | 46.3 | 48.4 | 49.4 | 48.3 | 47.4 |
| 16 | 46.4 | 46.4 | 47.3 | 50.3 | 48.4 | 47.4 |
| 18 | 50.3 | 50.3 | 52.4 | 50.9 | 48.3 | 43.8 |
| 19 | 58.2 | - | 59.1 | 59.5 | 57.3 | 47.4*** |
| 20 | 50.4 | 50.4 | 47.9 | 48.3 | 48.4 | 47.4 |
| 21 | 46.3 | 46.3 | 51.9 | 47.9 | 47.4 | 46.8 |
| 23 | 51.4 | 51.4 | 47.3 | 48.3 | 48.4 | 47.4 |
| 24 | 46.4 | 46.4 | 44.3 | 49.3 | 48.4 | 46.3 |

| | | | | | | |
|--|---|------|---|---|---|------|
| 25 | - | 60.0 | - | - | - | 64.0 |
| 26 | - | 57.3 | - | - | - | 60.0 |
| 27 | - | 59.1 | - | - | - | 63.0 |
| 28 | - | 60.0 | - | - | - | 62.0 |
| 29 | - | 60.0 | - | - | - | 57.5 |
| 30 | - | 58.4 | - | - | - | 64.0 |
| *1 st group values considered for the hydration evaluation of time-points 2h, 4h and 8h after products' application ** 2 nd group: values considered for the hydration evaluation at time-point 24h after products' application ***Values not considered for the mean values | | | | | | |

Table S4.5. Mean temperature and relative humidity values recorded during the acclimatization period

| | T0* | | T00** | | T24 | |
|--|--------|--------|--------|--------|--------|--------|
| | T (°C) | RH (%) | T (°C) | RH (%) | T (°C) | RH (%) |
| Mean | 23.1 | 52.1 | 23.6 | 52.0 | 23.9 | 51.6 |
| SD | 0.7 | 6.2 | 0.5 | 6.1 | 0.4 | 7.1 |
| * 1 st group: values considered for the hydration evaluation at time-points 2, 4 and 8 h after product applications * 2 nd group: values considered for the hydration evaluation at time-point 24 h after products' application | | | | | | |

Table S4.6. Mean temperature and relative humidity values recorded during the measurements

| | T0* | | T00** | | T2* | | T4* | | T8* | | T24** | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | T (°C) | RH (%) | T (°C) | RH (%) | T (°C) | RH (%) | T (°C) | RH (%) | T (°C) | RH (%) | T (°C) | RH (%) |
| Mean | 23.7 | 51.8 | 23.7 | 51.9 | 23.6 | 52.4 | 23.5 | 53.0 | 23.5 | 51.4 | 24.2 | 51.9 |
| SD | 0.3 | 5.6 | 0.2 | 5.8 | 0.2 | 5.7 | 0.2 | 5.3 | 0.3 | 4.0 | 0.6 | 7.7 |
| * 1st group: values considered for the hydration evaluation at time-points 2, 4 and 8 h after product' applica | | | | | | | | | | | | |
| * 2nd group: values considered for the hydration evaluation at time-point 24 h after products' application | | | | | | | | | | | | |

Supplementary Material SV – Skin hydration results

S5.1 – Hydration values

Table S4.1 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the product A, 2h, 4h, 8h and 24h.

| CTR+ | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 1 | 27.60 | 77.10 | 76.00 | 75.80 | 24.40 |
| 1 | 24.50 | 76.00 | 76.20 | 76.00 | 18.30 |
| 1 | 35.00 | 76.00 | 76.30 | 77.30 | 27.70 |
| 2 | 32.60 | 81.50 | 77.90 | 84.40 | 44.00 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 2 | 36.00 | 76.90 | 78.70 | 80.60 | 48.20 |
| 2 | 35.00 | 77.00 | 85.80 | 79.80 | 51.80 |
| 4 | 37.70 | 76.40 | 77.70 | 75.50 | 39.80 |
| 4 | 38.70 | 76.10 | 75.80 | 76.40 | 42.00 |
| 4 | 36.90 | 76.10 | 76.00 | 77.40 | 39.60 |
| 5 | 18.60 | 78.10 | 77.60 | 37.10 | 33.50 |
| 5 | 21.60 | 77.30 | 77.30 | 38.30 | 30.10 |
| 5 | 23.30 | 77.40 | 78.80 | 40.10 | 34.10 |
| 6 | 27.70 | 76.10 | 76.40 | 89.80 | 33.00 |
| 6 | 22.90 | 76.30 | 76.30 | 85.60 | 34.40 |
| 6 | 23.60 | 76.30 | 76.50 | 73.60 | 41.00 |
| 9 | 33.90 | 77.00 | 61.80 | 75.40 | 32.90 |
| 9 | 34.10 | 69.20 | 72.70 | 77.10 | 36.60 |
| 9 | 31.30 | 72.50 | 69.00 | 79.40 | 35.70 |
| 12 | 34.70 | 76.10 | 76.40 | 82.30 | 41.20 |
| 12 | 36.80 | 76.10 | 76.30 | 77.40 | 39.50 |
| 12 | 37.30 | 76.10 | 76.30 | 78.20 | 43.50 |
| 13 | 26.70 | 40.90 | 37.10 | 41.30 | 34.90 |
| 13 | 26.80 | 40.00 | 36.30 | 41.80 | 30.20 |
| 13 | 28.20 | 41.10 | 40.90 | 41.80 | 34.30 |
| 14 | 28.30 | 76.40 | 69.50 | 75.10 | 29.70 |
| 14 | 31.30 | 80.50 | 74.90 | 73.20 | 35.40 |
| 14 | 29.20 | 76.30 | 73.20 | 69.30 | 30.70 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 15 | 15.40 | 29.50 | 25.70 | 26.40 | 17.90 |
| 15 | 16.80 | 36.20 | 30.50 | 29.50 | 22.20 |
| 15 | 13.80 | 31.50 | 29.50 | 26.60 | 21.00 |
| 16 | 31.70 | 76.90 | 89.60 | 69.00 | 44.60 |
| 16 | 33.00 | 77.60 | 75.20 | 71.90 | 40.90 |
| 16 | 32.90 | 84.30 | 73.50 | 76.40 | 39.50 |
| 18 | 27.90 | 76.80 | 74.40 | 37.60 | 32.50 |
| 18 | 26.80 | 76.90 | 77.60 | 37.20 | 33.30 |
| 18 | 28.40 | 77.00 | 77.10 | 45.80 | 36.40 |

| CTR+ | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 19 | 28.70 | 76.40 | 76.10 | 74.90 | 31.20 |
| 19 | 30.30 | 76.20 | 77.00 | 72.60 | 33.10 |
| 19 | 30.10 | 76.40 | 76.40 | 68.80 | 30.70 |
| 20 | 28.80 | 68.40 | 74.20 | 90.30 | 31.20 |
| 20 | 31.10 | 77.10 | 78.00 | 85.20 | 36.90 |
| 20 | 31.30 | 77.10 | 77.40 | 83.40 | 40.00 |
| 21 | 28.00 | 76.60 | 39.90 | 33.80 | 32.30 |
| 21 | 25.00 | 65.20 | 41.30 | 32.40 | 33.60 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 21 | 26.00 | 76.70 | 43.20 | 38.10 | 36.00 |
| 23 | 18.60 | 37.60 | 27.90 | 30.30 | 25.50 |
| 23 | 15.50 | 34.00 | 23.40 | 30.30 | 26.00 |
| 23 | 17.80 | 37.90 | 24.50 | 32.70 | 29.60 |
| 24 | 37.10 | 77.10 | 88.30 | 71.10 | 39.40 |
| 24 | 34.70 | 77.10 | 97.40 | 63.20 | 41.70 |
| 24 | 36.60 | 77.00 | 79.20 | 68.50 | 43.60 |
| 25 | 38.70 | - | - | - | 35.60 |
| 25 | 39.30 | - | - | - | 34.90 |
| 25 | 40.30 | - | - | - | 36.90 |
| 26 | 30.80 | - | - | - | 84.00 |
| 26 | 28.70 | - | - | - | 83.20 |
| 26 | 32.40 | - | - | - | 82.20 |
| 27 | 19.00 | - | - | - | 26.30 |
| 27 | 17.30 | - | - | - | 26.50 |
| 27 | 18.50 | - | - | - | 27.80 |
| 28 | 23.10 | - | - | - | 34.10 |
| 28 | 27.50 | - | - | - | 37.60 |
| 28 | 26.60 | - | - | - | 39.80 |
| 29 | 29.10 | - | - | - | 33.70 |
| 29 | 25.80 | - | - | - | 33.10 |
| 29 | 24.50 | - | - | - | 36.10 |
| 30 | 35.90 | - | - | - | 46.20 |

| | | | | | |
|----|-------|---|---|---|-------|
| 30 | 35.50 | - | - | - | 49.30 |
| 30 | 38.80 | - | - | - | 53.80 |

Table S5.2 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the CTR+, 2h, 4h, 8h and 24h.

| CTR+ | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 27.60 | - | 77.10 | 76.00 | 75.80 | - |
| 1 | 24.50 | - | 76.00 | 76.20 | 76.00 | - |
| 1 | 35.00 | - | 76.00 | 76.30 | 77.30 | - |
| 2 | 32.60 | 32.60 | 81.50 | 77.90 | 84.40 | 44.00 |
| 2 | 36.00 | 36.00 | 76.90 | 78.70 | 80.60 | 48.20 |
| 2 | 35.00 | 35.00 | 77.00 | 85.80 | 79.80 | 51.80 |
| 4 | 37.70 | - | 76.40 | 77.70 | 75.50 | - |
| 4 | 38.70 | - | 76.10 | 75.80 | 76.40 | - |
| 4 | 36.90 | - | 76.10 | 76.00 | 77.40 | - |
| 5 | 18.60 | 18.60 | 78.10 | 77.60 | 37.10 | 33.50 |
| 5 | 21.60 | 21.60 | 77.30 | 77.30 | 38.30 | 30.10 |
| 5 | 23.30 | 23.30 | 77.40 | 78.80 | 40.10 | 34.10 |
| 6 | 27.70 | - | 76.10 | 76.40 | 89.80 | - |
| 6 | 22.90 | - | 76.30 | 76.30 | 85.60 | - |
| 6 | 23.60 | - | 76.30 | 76.50 | 73.60 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 9 | 33.90 | 33.90 | 77.00 | 61.80 | 75.40 | 32.90 |
| 9 | 34.10 | 34.10 | 69.20 | 72.70 | 77.10 | 36.60 |
| 9 | 31.30 | 31.30 | 72.50 | 69.00 | 79.40 | 35.70 |
| 12 | 34.70 | - | 76.10 | 76.40 | 82.30 | - |
| 12 | 36.80 | - | 76.10 | 76.30 | 77.40 | - |
| 12 | 37.30 | - | 76.10 | 76.30 | 78.20 | - |
| 13 | 26.70 | 26.70 | 40.90 | 37.10 | 41.30 | 34.90 |
| 13 | 26.80 | 26.80 | 40.00 | 36.30 | 41.80 | 30.20 |
| 13 | 28.20 | 28.20 | 41.10 | 40.90 | 41.80 | 34.30 |
| 14 | 28.30 | - | 76.40 | 69.50 | 75.10 | - |
| 14 | 31.30 | - | 80.50 | 74.90 | 73.20 | - |
| 14 | 29.20 | - | 76.30 | 73.20 | 69.30 | - |
| 15 | 15.40 | 15.40 | 29.50 | 25.70 | 26.40 | 17.90 |
| 15 | 16.80 | 16.80 | 36.20 | 30.50 | 29.50 | 22.20 |
| 15 | 13.80 | 13.80 | 31.50 | 29.50 | 26.60 | 21.00 |
| 16 | 31.70 | 31.70 | 76.90 | 89.60 | 69.00 | 44.60 |
| 16 | 33.00 | 33.00 | 77.60 | 75.20 | 71.90 | 40.90 |
| 16 | 32.90 | 32.90 | 84.30 | 73.50 | 76.40 | 39.50 |
| 18 | 27.90 | 27.90 | 76.80 | 74.40 | 37.60 | 32.50 |
| 18 | 26.80 | 26.80 | 76.90 | 77.60 | 37.20 | 33.30 |
| 18 | 28.40 | 28.40 | 77.00 | 77.10 | 45.80 | 36.40 |
| 19 | 28.70 | - | 76.40 | 76.10 | 74.90 | - |

| CTR+ | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 19 | 30.30 | - | 76.20 | 77.00 | 72.60 | - |
| 19 | 30.10 | - | 76.40 | 76.40 | 68.80 | - |
| 20 | 28.80 | 28.80 | 68.40 | 74.20 | 90.30 | 31.20 |
| 20 | 31.10 | 31.10 | 77.10 | 78.00 | 85.20 | 36.90 |
| 20 | 31.30 | 31.30 | 77.10 | 77.40 | 83.40 | 40.00 |
| 21 | 28.00 | 28.00 | 76.60 | 39.90 | 33.80 | 32.30 |
| 21 | 25.00 | 25.00 | 65.20 | 41.30 | 32.40 | 33.60 |
| 21 | 26.00 | 26.00 | 76.70 | 43.20 | 38.10 | 36.00 |
| 23 | 18.60 | 18.60 | 37.60 | 27.90 | 30.30 | 25.50 |
| 23 | 15.50 | 15.50 | 34.00 | 23.40 | 30.30 | 26.00 |
| 23 | 17.80 | 17.80 | 37.90 | 24.50 | 32.70 | 29.60 |
| 24 | 37.10 | 37.10 | 77.10 | 88.30 | 71.10 | 39.40 |
| 24 | 34.70 | 34.70 | 77.10 | 97.40 | 63.20 | 41.70 |
| 24 | 36.60 | 36.60 | 77.00 | 79.20 | 68.50 | 43.60 |
| 25 | - | 38.70 | - | - | - | 35.60 |
| 25 | - | 39.30 | - | - | - | 34.90 |
| 25 | - | 40.30 | - | - | - | 36.90 |
| 26 | - | 30.80 | - | - | - | 84.00 |

| | | | | | | |
|---|---|-------|---|---|---|-------|
| 26 | - | 28.70 | - | - | - | 83.20 |
| 26 | - | 32.40 | - | - | - | 82.20 |
| 27 | - | 19.00 | - | - | - | 26.30 |
| 27 | - | 17.30 | - | - | - | 26.50 |
| 27 | - | 18.50 | - | - | - | 27.80 |
| 28 | - | 23.10 | - | - | - | 34.10 |
| 28 | - | 27.50 | - | - | - | 37.60 |
| 28 | - | 26.60 | - | - | - | 39.80 |
| 29 | - | 29.10 | - | - | - | 33.70 |
| 29 | - | 25.80 | - | - | - | 33.10 |
| 29 | - | 24.50 | - | - | - | 36.10 |
| 30 | - | 35.90 | - | - | - | 46.20 |
| 30 | - | 35.50 | - | - | - | 49.30 |
| 30 | - | 38.80 | - | - | - | 53.80 |
| <p>*1st group values considered for the hydration evaluation of time-points 2h, 4h and 8h after products' application</p> <p>** 2nd group: values considered for the hydration evaluation at time-point 24h after products' application</p> | | | | | | |

Table S5.3 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the CTR-, 2h, 4h, 8h and 24h.

| CTR- | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 1 | 28.50 | 25.80 | 27.70 | 28.20 | 22.80 |
| 1 | 36.50 | 31.90 | 33.20 | 33.40 | 21.60 |
| 1 | 35.80 | 28.20 | 25.10 | 26.00 | 21.70 |
| 2 | 32.00 | 27.60 | 28.10 | 36.20 | 34.00 |
| 2 | 39.20 | 31.10 | 36.30 | 40.90 | 41.50 |
| 2 | 33.40 | 27.20 | 31.20 | 33.00 | 34.80 |
| 4 | 29.50 | 20.10 | 21.40 | 24.50 | 23.60 |
| 4 | 33.80 | 22.50 | 23.00 | 23.00 | 25.60 |
| 4 | 26.70 | 19.70 | 19.80 | 20.60 | 23.10 |
| 5 | 21.10 | 20.40 | 18.90 | 19.20 | 23.10 |
| 5 | 18.70 | 19.30 | 18.60 | 15.90 | 23.90 |
| 5 | 18.10 | 18.50 | 18.00 | 16.10 | 21.00 |
| 6 | 32.50 | 26.30 | 29.70 | 25.70 | 23.30 |
| 6 | 31.40 | 31.80 | 35.50 | 27.80 | 25.60 |
| 6 | 30.50 | 27.90 | 31.20 | 25.20 | 26.00 |
| 9 | 36.60 | 28.00 | 25.10 | 31.90 | 36.50 |
| 9 | 29.80 | 25.20 | 20.20 | 32.10 | 29.90 |
| 9 | 31.10 | 28.40 | 24.00 | 30.90 | 32.30 |
| 12 | 32.90 | 28.60 | 32.00 | 29.30 | 30.00 |
| 12 | 34.60 | 34.10 | 35.10 | 29.60 | 36.30 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 12 | 33.80 | 26.60 | 30.60 | 27.10 | 27.90 |
| 13 | 22.20 | 23.20 | 23.10 | 27.00 | 22.30 |
| 13 | 21.30 | 21.60 | 23.70 | 26.90 | 20.40 |
| 13 | 20.80 | 20.50 | 21.80 | 28.80 | 26.80 |
| 14 | 33.80 | 26.20 | 26.60 | 26.40 | 28.80 |
| 14 | 35.40 | 30.00 | 27.90 | 28.70 | 31.00 |
| 14 | 33.90 | 23.80 | 22.90 | 23.70 | 27.00 |
| 15 | 21.00 | 21.30 | 19.20 | 17.70 | 21.50 |
| 15 | 13.50 | 16.90 | 16.00 | 17.80 | 16.20 |
| 15 | 19.20 | 20.20 | 18.80 | 18.40 | 21.70 |
| 16 | 31.00 | 28.80 | 24.90 | 30.80 | 28.80 |
| 16 | 30.10 | 27.00 | 26.80 | 30.30 | 26.70 |
| 16 | 30.90 | 27.10 | 25.90 | 32.20 | 25.10 |
| 18 | 23.30 | 22.50 | 20.60 | 17.00 | 22.30 |
| 18 | 20.70 | 25.00 | 20.00 | 19.80 | 25.30 |
| 18 | 23.70 | 22.70 | 18.10 | 18.70 | 24.40 |

| CTR- | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 19 | 22.10 | 20.30 | 25.00 | 18.00 | 22.90 |
| 19 | 27.20 | 21.20 | 22.10 | 18.30 | 18.20 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 19 | 24.60 | 21.80 | 24.40 | 14.00 | 19.10 |
| 20 | 28.20 | 27.70 | 22.80 | 28.40 | 25.60 |
| 20 | 33.30 | 26.50 | 23.20 | 31.10 | 25.60 |
| 20 | 29.50 | 28.40 | 25.70 | 28.60 | 26.00 |
| 21 | 22.40 | 25.60 | 21.40 | 21.60 | 29.60 |
| 21 | 19.90 | 23.70 | 20.10 | 19.00 | 22.20 |
| 21 | 18.00 | 25.60 | 20.10 | 17.00 | 25.60 |
| 23 | 20.00 | 16.00 | 15.50 | 16.30 | 26.30 |
| 23 | 16.50 | 14.00 | 13.20 | 15.40 | 22.90 |
| 23 | 14.70 | 15.20 | 13.70 | 17.50 | 23.40 |
| 24 | 34.30 | 27.00 | 29.80 | 33.50 | 37.90 |
| 24 | 37.00 | 34.30 | 30.70 | 31.90 | 39.30 |
| 24 | 32.30 | 28.30 | 25.70 | 34.20 | 36.70 |
| 25 | 35.10 | - | - | - | 35.80 |
| 25 | 39.70 | - | - | - | 38.00 |
| 25 | 40.50 | - | - | - | 38.00 |
| 26 | 37.10 | - | - | - | 38.40 |
| 26 | 30.30 | - | - | - | 35.10 |
| 26 | 32.00 | - | - | - | 41.60 |
| 27 | 27.10 | - | - | - | 29.30 |
| 27 | 24.10 | - | - | - | 31.90 |
| 27 | 26.50 | - | - | - | 32.10 |
| 28 | 22.40 | - | - | - | 22.60 |

| | | | | | |
|----|-------|---|---|---|-------|
| 28 | 24.20 | - | - | - | 23.50 |
| 28 | 25.20 | - | - | - | 24.40 |
| 29 | 31.40 | - | - | - | 29.00 |
| 29 | 30.80 | - | - | - | 34.70 |
| 29 | 28.00 | - | - | - | 33.00 |
| 30 | 25.20 | - | - | - | 30.70 |
| 30 | 27.00 | - | - | - | 29.30 |
| 30 | 30.90 | - | - | - | 31.10 |

Table S5.4 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the product CTR-, 2h, 4h, 8h and 24h

| CTR- | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 28.50 | - | 25.80 | 27.70 | 28.20 | - |
| 1 | 36.50 | - | 31.90 | 33.20 | 33.40 | - |
| 1 | 35.80 | - | 28.20 | 25.10 | 26.00 | - |
| 2 | 32.00 | 32.00 | 27.60 | 28.10 | 36.20 | 34.00 |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 2 | 39.20 | 39.20 | 31.10 | 36.30 | 40.90 | 41.50 |
| 2 | 33.40 | 33.40 | 27.20 | 31.20 | 33.00 | 34.80 |
| 4 | 29.50 | - | 20.10 | 21.40 | 24.50 | - |
| 4 | 33.80 | - | 22.50 | 23.00 | 23.00 | - |
| 4 | 26.70 | - | 19.70 | 19.80 | 20.60 | - |
| 5 | 21.10 | 21.10 | 20.40 | 18.90 | 19.20 | 23.10 |
| 5 | 18.70 | 18.70 | 19.30 | 18.60 | 15.90 | 23.90 |
| 5 | 18.10 | 18.10 | 18.50 | 18.00 | 16.10 | 21.00 |
| 6 | 32.50 | - | 26.30 | 29.70 | 25.70 | - |
| 6 | 31.40 | - | 31.80 | 35.50 | 27.80 | - |
| 6 | 30.50 | - | 27.90 | 31.20 | 25.20 | - |
| 9 | 36.60 | 36.60 | 28.00 | 25.10 | 31.90 | 36.50 |
| 9 | 29.80 | 29.80 | 25.20 | 20.20 | 32.10 | 29.90 |
| 9 | 31.10 | 31.10 | 28.40 | 24.00 | 30.90 | 32.30 |
| 12 | 32.90 | - | 28.60 | 32.00 | 29.30 | - |
| 12 | 34.60 | - | 34.10 | 35.10 | 29.60 | - |
| 12 | 33.80 | - | 26.60 | 30.60 | 27.10 | - |
| 13 | 22.20 | 22.20 | 23.20 | 23.10 | 27.00 | 22.30 |
| 13 | 21.30 | 21.30 | 21.60 | 23.70 | 26.90 | 20.40 |
| 13 | 20.80 | 20.80 | 20.50 | 21.80 | 28.80 | 26.80 |
| 14 | 33.80 | - | 26.20 | 26.60 | 26.40 | - |
| 14 | 35.40 | - | 30.00 | 27.90 | 28.70 | - |
| 14 | 33.90 | - | 23.80 | 22.90 | 23.70 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 15 | 21.00 | 21.00 | 21.30 | 19.20 | 17.70 | 21.50 |
| 15 | 13.50 | 13.50 | 16.90 | 16.00 | 17.80 | 16.20 |
| 15 | 19.20 | 19.20 | 20.20 | 18.80 | 18.40 | 21.70 |
| 16 | 31.00 | 31.00 | 28.80 | 24.90 | 30.80 | 28.80 |
| 16 | 30.10 | 30.10 | 27.00 | 26.80 | 30.30 | 26.70 |
| 16 | 30.90 | 30.90 | 27.10 | 25.90 | 32.20 | 25.10 |
| 18 | 23.30 | 23.30 | 22.50 | 20.60 | 17.00 | 22.30 |
| 18 | 20.70 | 20.70 | 25.00 | 20.00 | 19.80 | 25.30 |
| 18 | 23.70 | 23.70 | 22.70 | 18.10 | 18.70 | 24.40 |

| CTR- | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 19 | 22.10 | - | 20.30 | 25.00 | 18.00 | - |
| 19 | 27.20 | - | 21.20 | 22.10 | 18.30 | - |
| 19 | 24.60 | - | 21.80 | 24.40 | 14.00 | - |
| 20 | 28.20 | 28.20 | 27.70 | 22.80 | 28.40 | 25.60 |
| 20 | 33.30 | 33.30 | 26.50 | 23.20 | 31.10 | 25.60 |
| 20 | 29.50 | 29.50 | 28.40 | 25.70 | 28.60 | 26.00 |
| 21 | 22.40 | 22.40 | 25.60 | 21.40 | 21.60 | 29.60 |
| 21 | 19.90 | 19.90 | 23.70 | 20.10 | 19.00 | 22.20 |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 21 | 18.00 | 18.00 | 25.60 | 20.10 | 17.00 | 25.60 |
| 23 | 20.00 | 20.00 | 16.00 | 15.50 | 16.30 | 26.30 |
| 23 | 16.50 | 16.50 | 14.00 | 13.20 | 15.40 | 22.90 |
| 23 | 14.70 | 14.70 | 15.20 | 13.70 | 17.50 | 23.40 |
| 24 | 34.30 | 34.30 | 27.00 | 29.80 | 33.50 | 37.90 |
| 24 | 37.00 | 37.00 | 34.30 | 30.70 | 31.90 | 39.30 |
| 24 | 32.30 | 32.30 | 28.30 | 25.70 | 34.20 | 36.70 |
| 25 | - | 35.10 | - | - | - | 35.80 |
| 25 | - | 39.70 | - | - | - | 38.00 |
| 25 | - | 40.50 | - | - | - | 38.00 |
| 26 | - | 37.10 | - | - | - | 38.40 |
| 26 | - | 30.30 | - | - | - | 35.10 |
| 26 | - | 32.00 | - | - | - | 41.60 |
| 27 | - | 27.10 | - | - | - | 29.30 |
| 27 | - | 24.10 | - | - | - | 31.90 |
| 27 | - | 26.50 | - | - | - | 32.10 |
| 28 | - | 22.40 | - | - | - | 22.60 |
| 28 | - | 24.20 | - | - | - | 23.50 |
| 28 | - | 25.20 | - | - | - | 24.40 |
| 29 | - | 31.40 | - | - | - | 29.00 |
| 29 | - | 30.80 | - | - | - | 34.70 |
| 29 | - | 28.00 | - | - | - | 33.00 |
| 30 | - | 25.20 | - | - | - | 30.70 |

| | | | | | | |
|---|---|-------|---|---|---|-------|
| 30 | - | 27.00 | - | - | - | 29.30 |
| 30 | - | 30.90 | - | - | - | 31.10 |
| <p>*1st group: values considered for the hydration evaluation at time-points 2 hours, 4 hours and 8 hours after products' application</p> <p>**2nd group: values considered for the hydration evaluation at time-point 24 hours after products' application</p> | | | | | | |

Table S5.5 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the F4, 2h, 4h, 8h and 24h.

| F4 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 1 | 34.60 | 37.40 | 34.10 | 27.50 | 21.00 |
| 1 | 34.10 | 34.20 | 35.70 | 26.30 | 24.00 |
| 1 | 27.90 | 27.60 | 29.70 | 21.30 | 19.70 |
| 2 | 47.10 | 39.80 | 43.10 | 39.70 | 43.30 |
| 2 | 47.30 | 37.20 | 42.10 | 44.30 | 42.40 |
| 2 | 56.10 | 42.10 | 42.60 | 41.20 | 48.00 |
| 4 | 34.40 | 28.60 | 32.00 | 25.60 | 25.50 |
| 4 | 28.50 | 31.70 | 30.50 | 24.90 | 21.00 |
| 4 | 28.60 | 23.00 | 31.90 | 27.70 | 26.00 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 5 | 17.10 | 19.60 | 20.90 | 17.30 | 17.60 |
| 5 | 20.60 | 21.80 | 22.70 | 12.90 | 19.50 |
| 5 | 16.20 | 20.40 | 21.00 | 15.20 | 18.90 |
| 6 | 26.80 | 30.80 | 29.70 | 24.70 | 25.10 |
| 6 | 27.90 | 32.00 | 31.30 | 24.40 | 24.50 |
| 6 | 28.40 | 33.60 | 31.40 | 22.60 | 24.70 |
| 9 | 31.40 | 25.20 | 22.80 | 27.00 | 32.30 |
| 9 | 32.20 | 25.00 | 21.70 | 27.70 | 26.50 |
| 9 | 30.00 | 27.10 | 24.20 | 26.60 | 29.80 |
| 12 | 34.90 | 23.00 | 28.10 | 26.20 | 29.30 |
| 12 | 34.80 | 25.70 | 29.50 | 24.80 | 22.90 |
| 12 | 36.30 | 27.70 | 35.00 | 21.40 | 26.70 |
| 13 | 23.40 | 24.50 | 23.70 | 28.90 | 27.10 |
| 13 | 22.10 | 26.50 | 26.90 | 26.60 | 26.50 |
| 13 | 22.20 | 23.20 | 22.90 | 27.60 | 24.00 |
| 14 | 39.30 | 27.10 | 36.20 | 35.30 | 30.70 |
| 14 | 31.70 | 29.90 | 30.20 | 27.20 | 27.90 |
| 14 | 35.10 | 30.20 | 32.60 | 29.70 | 28.60 |
| 15 | 16.10 | 21.30 | 19.50 | 16.00 | 20.80 |
| 15 | 16.10 | 17.10 | 14.70 | 16.40 | 17.00 |
| 15 | 18.90 | 20.40 | 18.30 | 17.00 | 19.50 |
| 16 | 24.20 | 20.80 | 16.80 | 23.50 | 20.10 |
| 16 | 25.00 | 15.30 | 14.50 | 22.40 | 19.00 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 16 | 23.80 | 13.70 | 17.50 | 22.70 | 20.00 |
| 18 | 25.20 | 37.30 | 37.80 | 31.70 | 27.30 |
| 18 | 26.80 | 34.20 | 30.50 | 27.10 | 24.50 |
| 18 | 25.50 | 34.80 | 32.10 | 29.20 | 26.30 |
| 19 | 28.10 | 22.60 | 24.90 | 18.00 | 23.60 |

| F4 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 19 | 25.90 | 20.80 | 23.70 | 22.50 | 21.70 |
| 19 | 22.90 | 21.00 | 21.90 | 16.90 | 18.30 |
| 20 | 33.70 | 32.00 | 30.30 | 36.00 | 39.20 |
| 20 | 32.80 | 32.10 | 31.00 | 39.50 | 36.50 |
| 20 | 31.70 | 26.10 | 31.10 | 33.10 | 33.00 |
| 21 | 23.80 | 18.90 | 18.50 | 20.00 | 24.30 |
| 21 | 25.30 | 24.70 | 25.60 | 22.60 | 27.20 |
| 21 | 27.50 | 24.10 | 20.90 | 24.50 | 25.70 |
| 23 | 15.30 | 14.20 | 13.30 | 21.00 | 17.20 |
| 23 | 18.50 | 13.70 | 11.30 | 20.50 | 19.10 |
| 23 | 16.60 | 16.10 | 11.80 | 20.00 | 16.40 |
| 24 | 35.60 | 32.60 | 33.40 | 38.60 | 32.90 |
| 24 | 33.20 | 32.50 | 28.30 | 37.20 | 33.80 |
| 24 | 34.10 | 34.10 | 35.80 | 39.60 | 36.80 |

| | | | | | |
|----|-------|---|---|---|-------|
| 25 | 36.10 | - | - | - | 29.50 |
| 25 | 33.20 | - | - | - | 26.60 |
| 25 | 39.00 | - | - | - | 32.40 |
| 26 | 35.70 | - | - | - | 41.60 |
| 26 | 28.80 | - | - | - | 41.70 |
| 26 | 33.80 | - | - | - | 49.70 |
| 27 | 28.80 | - | - | - | 37.40 |
| 27 | 27.80 | - | - | - | 38.30 |
| 27 | 35.30 | - | - | - | 31.30 |
| 28 | 28.40 | - | - | - | 30.50 |
| 28 | 27.70 | - | - | - | 31.80 |
| 28 | 34.60 | - | - | - | 31.60 |
| 29 | 30.30 | - | - | - | 29.70 |
| 29 | 26.50 | - | - | - | 34.00 |
| 29 | 27.00 | - | - | - | 32.30 |
| 30 | 24.60 | - | - | - | 26.70 |
| 30 | 27.30 | - | - | - | 26.00 |
| 30 | 26.90 | - | - | - | 25.40 |

Table S5.6 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the F4, 2h, 4h, 8h and 24h.

| F4 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 34.60 | - | 37.40 | 34.10 | 27.50 | - |
| 1 | 34.10 | - | 34.20 | 35.70 | 26.30 | - |
| 1 | 27.90 | - | 27.60 | 29.70 | 21.30 | - |
| 2 | 47.10 | 47.10 | 39.80 | 43.10 | 39.70 | 43.30 |
| 2 | 47.30 | 47.30 | 37.20 | 42.10 | 44.30 | 42.40 |
| 2 | 56.10 | 56.10 | 42.10 | 42.60 | 41.20 | 48.00 |
| 4 | 34.40 | - | 28.60 | 32.00 | 25.60 | - |
| 4 | 28.50 | - | 31.70 | 30.50 | 24.90 | - |
| 4 | 28.60 | - | 23.00 | 31.90 | 27.70 | - |
| 5 | 17.10 | 17.10 | 19.60 | 20.90 | 17.30 | 17.60 |
| 5 | 20.60 | 20.60 | 21.80 | 22.70 | 12.90 | 19.50 |
| 5 | 16.20 | 16.20 | 20.40 | 21.00 | 15.20 | 18.90 |
| 6 | 26.80 | - | 30.80 | 29.70 | 24.70 | - |
| 6 | 27.90 | - | 32.00 | 31.30 | 24.40 | - |
| 6 | 28.40 | - | 33.60 | 31.40 | 22.60 | - |
| 9 | 31.40 | 31.40 | 25.20 | 22.80 | 27.00 | 32.30 |
| 9 | 32.20 | 32.20 | 25.00 | 21.70 | 27.70 | 26.50 |
| 9 | 30.00 | 30.00 | 27.10 | 24.20 | 26.60 | 29.80 |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 12 | 34.90 | - | 23.00 | 28.10 | 26.20 | - |
| 12 | 34.80 | - | 25.70 | 29.50 | 24.80 | - |
| 12 | 36.30 | - | 27.70 | 35.00 | 21.40 | - |
| 13 | 23.40 | 23.40 | 24.50 | 23.70 | 28.90 | 27.10 |
| 13 | 22.10 | 22.10 | 26.50 | 26.90 | 26.60 | 26.50 |
| 13 | 22.20 | 22.20 | 23.20 | 22.90 | 27.60 | 24.00 |
| 14 | 39.30 | - | 27.10 | 36.20 | 35.30 | - |
| 14 | 31.70 | - | 29.90 | 30.20 | 27.20 | - |
| 14 | 35.10 | - | 30.20 | 32.60 | 29.70 | - |
| 15 | 16.10 | 16.10 | 21.30 | 19.50 | 16.00 | 20.80 |
| 15 | 16.10 | 16.10 | 17.10 | 14.70 | 16.40 | 17.00 |
| 15 | 18.90 | 18.90 | 20.40 | 18.30 | 17.00 | 19.50 |
| 16 | 24.20 | 24.20 | 20.80 | 16.80 | 23.50 | 20.10 |
| 16 | 25.00 | 25.00 | 15.30 | 14.50 | 22.40 | 19.00 |
| 16 | 23.80 | 23.80 | 13.70 | 17.50 | 22.70 | 20.00 |
| 18 | 25.20 | 25.20 | 37.30 | 37.80 | 31.70 | 27.30 |
| 18 | 26.80 | 26.80 | 34.20 | 30.50 | 27.10 | 24.50 |
| 18 | 25.50 | 25.50 | 34.80 | 32.10 | 29.20 | 26.30 |
| 19 | 28.10 | - | 22.60 | 24.90 | 18.00 | - |

| F4 | | | | | | |
|---------|-----|------|-----|-----|-----|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 19 | 25.90 | - | 20.80 | 23.70 | 22.50 | - |
| 19 | 22.90 | - | 21.00 | 21.90 | 16.90 | - |
| 20 | 33.70 | 33.70 | 32.00 | 30.30 | 36.00 | 39.20 |
| 20 | 32.80 | 32.80 | 32.10 | 31.00 | 39.50 | 36.50 |
| 20 | 31.70 | 31.70 | 26.10 | 31.10 | 33.10 | 33.00 |
| 21 | 23.80 | 23.80 | 18.90 | 18.50 | 20.00 | 24.30 |
| 21 | 25.30 | 25.30 | 24.70 | 25.60 | 22.60 | 27.20 |
| 21 | 27.50 | 27.50 | 24.10 | 20.90 | 24.50 | 25.70 |
| 23 | 15.30 | 15.30 | 14.20 | 13.30 | 21.00 | 17.20 |
| 23 | 18.50 | 18.50 | 13.70 | 11.30 | 20.50 | 19.10 |
| 23 | 16.60 | 16.60 | 16.10 | 11.80 | 20.00 | 16.40 |
| 24 | 35.60 | 35.60 | 32.60 | 33.40 | 38.60 | 32.90 |
| 24 | 33.20 | 33.20 | 32.50 | 28.30 | 37.20 | 33.80 |
| 24 | 34.10 | 34.10 | 34.10 | 35.80 | 39.60 | 36.80 |
| 25 | - | 36.10 | - | - | - | 29.50 |
| 25 | - | 33.20 | - | - | - | 26.60 |
| 25 | - | 39.00 | - | - | - | 32.40 |
| 26 | - | 35.70 | - | - | - | 41.60 |
| 26 | - | 28.80 | - | - | - | 41.70 |
| 26 | - | 33.80 | - | - | - | 49.70 |
| 27 | - | 28.80 | - | - | - | 37.40 |
| 27 | - | 27.80 | - | - | - | 38.30 |
| 27 | - | 35.30 | - | - | - | 31.30 |

| | | | | | | |
|---|---|-------|---|---|---|-------|
| 28 | - | 28.40 | - | - | - | 30.50 |
| 28 | - | 27.70 | - | - | - | 31.80 |
| 28 | - | 34.60 | - | - | - | 31.60 |
| 29 | - | 30.30 | - | - | - | 29.70 |
| 29 | - | 26.50 | - | - | - | 34.00 |
| 29 | - | 27.00 | - | - | - | 32.30 |
| 30 | - | 24.60 | - | - | - | 26.70 |
| 30 | - | 27.30 | - | - | - | 26.00 |
| 30 | - | 26.90 | - | - | - | 25.40 |
| <p>*1st group: values considered for the hydration evaluation at time-points 2 hours, 4 hours and 8 hours after products' application</p> <p>**2nd group: values considered for the hydration evaluation at time-point 24 hours after products' application</p> | | | | | | |

Table S5.7 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the F1, 2h, 4h, 8h and 24h.

| F1 | | | | | |
|-------------|-------|-------|-------|-------|-------|
| Subjec t | t0 | t2 | t4 | t8 | t24 |
| 1 | 40.60 | 31.30 | 32.30 | 29.90 | 28.00 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 1 | 37.20 | 25.70 | 24.70 | 24.90 | 21.30 |
| 1 | 39.50 | 31.00 | 31.50 | 29.10 | 28.20 |
| 2 | 38.10 | 24.40 | 28.80 | 33.00 | 34.20 |
| 2 | 32.40 | 24.40 | 25.90 | 31.10 | 29.90 |
| 2 | 36.80 | 23.70 | 27.10 | 32.60 | 32.70 |
| 4 | 38.30 | 36.30 | 35.00 | 37.60 | 32.40 |
| 4 | 44.30 | 33.30 | 37.10 | 34.20 | 30.90 |
| 4 | 37.80 | 32.40 | 34.00 | 35.50 | 32.60 |
| 5 | 23.10 | 28.50 | 27.40 | 24.50 | 23.80 |
| 5 | 19.20 | 27.50 | 24.20 | 18.90 | 18.00 |
| 5 | 20.60 | 25.70 | 21.40 | 18.10 | 20.00 |
| 6 | 28.90 | 35.40 | 39.20 | 25.40 | 24.40 |
| 6 | 25.80 | 30.10 | 38.10 | 27.40 | 24.30 |
| 6 | 27.50 | 32.70 | 38.00 | 24.70 | 27.40 |
| 9 | 33.60 | 32.70 | 28.90 | 32.90 | 34.90 |
| 9 | 29.90 | 28.50 | 21.40 | 27.80 | 25.80 |
| 9 | 32.10 | 31.10 | 29.70 | 35.70 | 32.90 |
| 12 | 31.80 | 37.30 | 36.30 | 25.80 | 30.60 |
| 12 | 33.60 | 28.90 | 29.10 | 26.70 | 27.60 |
| 12 | 28.10 | 34.80 | 33.30 | 22.50 | 28.90 |
| 13 | 20.50 | 20.60 | 24.50 | 22.70 | 20.20 |
| 13 | 22.90 | 21.70 | 23.30 | 28.40 | 24.20 |
| 13 | 23.90 | 20.20 | 20.30 | 28.70 | 22.90 |
| 14 | 36.40 | 26.80 | 30.70 | 25.70 | 20.50 |
| 14 | 28.90 | 25.30 | 26.00 | 23.40 | 18.50 |
| 14 | 29.30 | 26.60 | 28.80 | 25.40 | 19.10 |
| 15 | 17.70 | 19.80 | 15.40 | 20.90 | 22.20 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 15 | 16.40 | 17.30 | 12.70 | 13.60 | 13.70 |
| 15 | 19.50 | 13.70 | 14.50 | 22.80 | 18.00 |
| 16 | 30.50 | 31.80 | 30.40 | 33.00 | 26.20 |
| 16 | 35.20 | 31.10 | 29.30 | 31.80 | 25.00 |
| 16 | 30.90 | 30.50 | 32.50 | 35.40 | 23.50 |
| 18 | 28.60 | 24.90 | 29.50 | 27.80 | 29.90 |
| 18 | 29.10 | 28.70 | 27.20 | 29.70 | 30.60 |
| 18 | 27.80 | 27.00 | 29.20 | 27.30 | 32.10 |
| 19 | 28.50 | 24.70 | 21.20 | 18.70 | 20.20 |
| 19 | 27.10 | 24.80 | 17.20 | 17.40 | 23.70 |
| 19 | 25.10 | 20.40 | 23.10 | 11.90 | 21.40 |
| 20 | 32.90 | 26.60 | 21.60 | 29.30 | 26.90 |

| F1 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 20 | 30.70 | 25.60 | 22.30 | 29.60 | 28.90 |
| 20 | 32.00 | 29.10 | 22.90 | 25.50 | 34.90 |
| 21 | 28.80 | 27.60 | 27.70 | 28.40 | 30.40 |
| 21 | 25.30 | 32.00 | 31.80 | 28.60 | 28.20 |
| 21 | 25.60 | 27.30 | 24.80 | 27.50 | 25.20 |
| 23 | 17.80 | 14.20 | 14.20 | 19.00 | 18.00 |
| 23 | 15.70 | 17.00 | 13.60 | 17.90 | 17.00 |
| 23 | 18.60 | 16.40 | 14.00 | 18.40 | 16.70 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 24 | 23.50 | 28.40 | 21.40 | 29.80 | 23.70 |
| 24 | 25.50 | 25.70 | 24.00 | 31.70 | 26.00 |
| 24 | 28.40 | 27.60 | 27.00 | 35.60 | 29.90 |
| 25 | 27.80 | - | - | - | 24.90 |
| 25 | 31.70 | - | - | - | 26.30 |
| 25 | 33.00 | - | - | - | 26.30 |
| 26 | 29.00 | - | - | - | 40.70 |
| 26 | 34.00 | - | - | - | 42.60 |
| 26 | 27.50 | - | - | - | 37.30 |
| 27 | 22.80 | - | - | - | 23.40 |
| 27 | 21.10 | - | - | - | 24.90 |
| 27 | 23.70 | - | - | - | 27.40 |
| 28 | 21.60 | - | - | - | 21.40 |
| 28 | 23.00 | - | - | - | 21.50 |
| 28 | 25.40 | - | - | - | 22.00 |
| 29 | 39.30 | - | - | - | 41.70 |
| 29 | 41.70 | - | - | - | 42.60 |
| 29 | 42.10 | - | - | - | 43.00 |
| 30 | 32.30 | - | - | - | 33.30 |
| 30 | 29.80 | - | - | - | 31.70 |
| 30 | 33.20 | - | - | - | 33.60 |

Table S5.8 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the F1, 2h, 4h, 8h and 24h.

| F1 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 40.60 | - | 31.30 | 32.30 | 29.90 | - |
| 1 | 37.20 | - | 25.70 | 24.70 | 24.90 | - |
| 1 | 39.50 | - | 31.00 | 31.50 | 29.10 | - |
| 2 | 38.10 | 38.10 | 24.40 | 28.80 | 33.00 | 34.20 |
| 2 | 32.40 | 32.40 | 24.40 | 25.90 | 31.10 | 29.90 |
| 2 | 36.80 | 36.80 | 23.70 | 27.10 | 32.60 | 32.70 |
| 4 | 38.30 | - | 36.30 | 35.00 | 37.60 | - |
| 4 | 44.30 | - | 33.30 | 37.10 | 34.20 | - |
| 4 | 37.80 | - | 32.40 | 34.00 | 35.50 | - |
| 5 | 23.10 | 23.10 | 28.50 | 27.40 | 24.50 | 23.80 |
| 5 | 19.20 | 19.20 | 27.50 | 24.20 | 18.90 | 18.00 |
| 5 | 20.60 | 20.60 | 25.70 | 21.40 | 18.10 | 20.00 |
| 6 | 28.90 | - | 35.40 | 39.20 | 25.40 | - |
| 6 | 25.80 | - | 30.10 | 38.10 | 27.40 | - |
| 6 | 27.50 | - | 32.70 | 38.00 | 24.70 | - |
| 9 | 33.60 | 33.60 | 32.70 | 28.90 | 32.90 | 34.90 |
| 9 | 29.90 | 29.90 | 28.50 | 21.40 | 27.80 | 25.80 |
| 9 | 32.10 | 32.10 | 31.10 | 29.70 | 35.70 | 32.90 |
| 12 | 31.80 | - | 37.30 | 36.30 | 25.80 | - |
| 12 | 33.60 | - | 28.90 | 29.10 | 26.70 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 12 | 28.10 | - | 34.80 | 33.30 | 22.50 | - |
| 13 | 20.50 | 20.50 | 20.60 | 24.50 | 22.70 | 20.20 |
| 13 | 22.90 | 22.90 | 21.70 | 23.30 | 28.40 | 24.20 |
| 13 | 23.90 | 23.90 | 20.20 | 20.30 | 28.70 | 22.90 |
| 14 | 36.40 | - | 26.80 | 30.70 | 25.70 | - |
| 14 | 28.90 | - | 25.30 | 26.00 | 23.40 | - |
| 14 | 29.30 | - | 26.60 | 28.80 | 25.40 | - |
| 15 | 17.70 | 17.70 | 19.80 | 15.40 | 20.90 | 22.20 |
| 15 | 16.40 | 16.40 | 17.30 | 12.70 | 13.60 | 13.70 |
| 15 | 19.50 | 19.50 | 13.70 | 14.50 | 22.80 | 18.00 |
| 16 | 30.50 | 30.50 | 31.80 | 30.40 | 33.00 | 26.20 |
| 16 | 35.20 | 35.20 | 31.10 | 29.30 | 31.80 | 25.00 |
| 16 | 30.90 | 30.90 | 30.50 | 32.50 | 35.40 | 23.50 |
| 18 | 28.60 | 28.60 | 24.90 | 29.50 | 27.80 | 29.90 |
| 18 | 29.10 | 29.10 | 28.70 | 27.20 | 29.70 | 30.60 |
| 18 | 27.80 | 27.80 | 27.00 | 29.20 | 27.30 | 32.10 |
| 19 | 28.50 | - | 24.70 | 21.20 | 18.70 | - |

| F1 | | | | | | |
|---------|-------|------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 19 | 27.10 | - | 24.80 | 17.20 | 17.40 | - |
| 19 | 25.10 | - | 20.40 | 23.10 | 11.90 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 20 | 32.90 | 32.90 | 26.60 | 21.60 | 29.30 | 26.90 |
| 20 | 30.70 | 30.70 | 25.60 | 22.30 | 29.60 | 28.90 |
| 20 | 32.00 | 32.00 | 29.10 | 22.90 | 25.50 | 34.90 |
| 21 | 28.80 | 28.80 | 27.60 | 27.70 | 28.40 | 30.40 |
| 21 | 25.30 | 25.30 | 32.00 | 31.80 | 28.60 | 28.20 |
| 21 | 25.60 | 25.60 | 27.30 | 24.80 | 27.50 | 25.20 |
| 23 | 17.80 | 17.80 | 14.20 | 14.20 | 19.00 | 18.00 |
| 23 | 15.70 | 15.70 | 17.00 | 13.60 | 17.90 | 17.00 |
| 23 | 18.60 | 18.60 | 16.40 | 14.00 | 18.40 | 16.70 |
| 24 | 23.50 | 23.50 | 28.40 | 21.40 | 29.80 | 23.70 |
| 24 | 25.50 | 25.50 | 25.70 | 24.00 | 31.70 | 26.00 |
| 24 | 28.40 | 28.40 | 27.60 | 27.00 | 35.60 | 29.90 |
| 25 | - | 27.80 | - | - | - | 24.90 |
| 25 | - | 31.70 | - | - | - | 26.30 |
| 25 | - | 33.00 | - | - | - | 26.30 |
| 26 | - | 29.00 | - | - | - | 40.70 |
| 26 | - | 34.00 | - | - | - | 42.60 |
| 26 | - | 27.50 | - | - | - | 37.30 |
| 27 | - | 22.80 | - | - | - | 23.40 |
| 27 | - | 21.10 | - | - | - | 24.90 |
| 27 | - | 23.70 | - | - | - | 27.40 |
| 28 | - | 21.60 | - | - | - | 21.40 |
| 28 | - | 23.00 | - | - | - | 21.50 |

| | | | | | | |
|---|---|-------|---|---|---|-------|
| 28 | - | 25.40 | - | - | - | 22.00 |
| 29 | - | 39.30 | - | - | - | 41.70 |
| 29 | - | 41.70 | - | - | - | 42.60 |
| 29 | - | 42.10 | - | - | - | 43.00 |
| 30 | - | 32.30 | - | - | - | 33.30 |
| 30 | - | 29.80 | - | - | - | 31.70 |
| 30 | - | 33.20 | - | - | - | 33.60 |
| <p>*1st group: values considered for the hydration evaluation at time-points 2 hours, 4 hours and 8 hours after products' application</p> <p>**2nd group: values considered for the hydration evaluation at time-point 24 hours after products' application</p> | | | | | | |

Table S5.9 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the F2, 2h, 4h, 8h and 24h.

| F2 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 1 | 34.60 | 33.80 | 32.30 | 31.50 | 28.90 |
| 1 | 34.20 | 26.20 | 28.40 | 25.90 | 25.80 |
| 1 | 37.10 | 29.20 | 31.10 | 31.60 | 26.70 |
| 2 | 43.60 | 44.30 | 41.70 | 42.10 | 40.50 |
| 2 | 43.60 | 44.70 | 35.90 | 41.80 | 32.00 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 2 | 41.80 | 33.50 | 41.50 | 50.60 | 34.40 |
| 4 | 31.00 | 29.10 | 29.40 | 32.70 | 27.60 |
| 4 | 30.80 | 25.20 | 27.80 | 31.80 | 25.00 |
| 4 | 31.40 | 30.80 | 30.00 | 33.60 | 29.90 |
| 5 | 25.60 | 25.40 | 22.00 | 15.90 | 25.20 |
| 5 | 21.50 | 23.40 | 15.50 | 16.90 | 19.20 |
| 5 | 21.30 | 21.90 | 13.90 | 12.30 | 17.60 |
| 6 | 28.80 | 30.60 | 28.60 | 23.10 | 25.10 |
| 6 | 28.60 | 34.10 | 32.10 | 25.10 | 27.00 |
| 6 | 26.40 | 31.00 | 30.10 | 25.30 | 27.10 |
| 9 | 35.60 | 31.60 | 23.70 | 32.10 | 35.00 |
| 9 | 34.70 | 33.60 | 26.00 | 33.00 | 32.40 |
| 9 | 32.50 | 33.00 | 24.20 | 35.40 | 30.10 |
| 12 | 36.40 | 36.60 | 31.10 | 26.50 | 23.40 |
| 12 | 36.20 | 37.70 | 35.80 | 25.90 | 26.20 |
| 12 | 31.70 | 33.50 | 32.90 | 30.70 | 22.50 |
| 13 | 18.00 | 22.60 | 21.80 | 25.30 | 21.40 |
| 13 | 18.80 | 19.20 | 15.20 | 19.70 | 15.90 |
| 13 | 19.00 | 24.70 | 22.70 | 23.80 | 24.00 |
| 14 | 34.60 | 32.20 | 32.40 | 32.30 | 28.20 |
| 14 | 34.20 | 32.80 | 36.50 | 35.00 | 28.30 |
| 14 | 36.90 | 34.40 | 35.60 | 35.00 | 31.10 |
| 15 | 15.80 | 13.90 | 17.80 | 13.70 | 15.90 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 15 | 14.50 | 17.10 | 18.60 | 17.20 | 21.00 |
| 15 | 15.10 | 14.30 | 12.80 | 13.90 | 14.60 |
| 16 | 25.70 | 22.60 | 23.90 | 30.40 | 27.20 |
| 16 | 25.40 | 28.50 | 26.60 | 29.60 | 22.20 |
| 16 | 23.40 | 22.30 | 23.30 | 30.80 | 20.50 |
| 18 | 24.00 | 14.00 | 15.50 | 15.00 | 19.70 |
| 18 | 17.90 | 13.90 | 15.80 | 17.00 | 17.20 |
| 18 | 24.10 | 14.50 | 14.30 | 16.40 | 21.40 |
| 19 | 31.10 | 31.10 | 32.20 | 26.30 | 25.00 |

| F2 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 19 | 28.40 | 27.10 | 28.00 | 22.60 | 25.20 |
| 19 | 28.20 | 26.20 | 27.50 | 18.40 | 24.00 |
| 20 | 31.20 | 28.30 | 29.60 | 24.00 | 29.90 |
| 20 | 29.10 | 27.50 | 26.20 | 33.40 | 27.10 |
| 20 | 31.90 | 31.70 | 32.10 | 32.00 | 28.40 |
| 21 | 27.30 | 27.00 | 25.00 | 22.80 | 24.70 |
| 21 | 25.70 | 29.70 | 23.40 | 21.60 | 30.80 |
| 21 | 24.60 | 24.00 | 22.00 | 23.50 | 26.70 |
| 23 | 20.10 | 18.90 | 12.90 | 19.10 | 21.80 |
| 23 | 19.30 | 16.40 | 15.00 | 18.20 | 18.80 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 23 | 17.20 | 18.50 | 14.50 | 20.30 | 21.70 |
| 24 | 32.20 | 23.70 | 28.50 | 30.20 | 30.60 |
| 24 | 29.80 | 26.40 | 27.10 | 29.30 | 29.30 |
| 24 | 30.20 | 22.80 | 25.60 | 28.40 | 30.40 |
| 25 | 35.90 | - | - | - | 28.00 |
| 25 | 36.20 | - | - | - | 32.00 |
| 25 | 37.70 | - | - | - | 31.50 |
| 26 | 34.70 | - | - | - | 43.80 |
| 26 | 29.60 | - | - | - | 35.70 |
| 26 | 28.00 | - | - | - | 40.30 |
| 27 | 28.80 | - | - | - | 27.90 |
| 27 | 22.90 | - | - | - | 29.80 |
| 27 | 26.70 | - | - | - | 33.30 |
| 28 | 23.70 | - | - | - | 25.10 |
| 28 | 22.90 | - | - | - | 25.20 |
| 28 | 28.60 | - | - | - | 23.90 |
| 29 | 35.40 | - | - | - | 34.70 |
| 29 | 30.30 | - | - | - | 32.90 |
| 29 | 31.40 | - | - | - | 39.00 |
| 30 | 31.80 | - | - | - | 28.20 |
| 30 | 24.40 | - | - | - | 24.00 |
| 30 | 29.20 | - | - | - | 27.20 |

Table S5.10 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the F2, 2h, 4h, 8h and 24h.

| F2 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 34.60 | - | 33.80 | 32.30 | 31.50 | - |
| 1 | 34.20 | - | 26.20 | 28.40 | 25.90 | - |
| 1 | 37.10 | - | 29.20 | 31.10 | 31.60 | - |
| 2 | 43.60 | 43.60 | 44.30 | 41.70 | 42.10 | 40.50 |
| 2 | 43.60 | 43.60 | 44.70 | 35.90 | 41.80 | 32.00 |
| 2 | 41.80 | 41.80 | 33.50 | 41.50 | 50.60 | 34.40 |
| 4 | 31.00 | - | 29.10 | 29.40 | 32.70 | - |
| 4 | 30.80 | - | 25.20 | 27.80 | 31.80 | - |
| 4 | 31.40 | - | 30.80 | 30.00 | 33.60 | - |
| 5 | 25.60 | 25.60 | 25.40 | 22.00 | 15.90 | 25.20 |
| 5 | 21.50 | 21.50 | 23.40 | 15.50 | 16.90 | 19.20 |
| 5 | 21.30 | 21.30 | 21.90 | 13.90 | 12.30 | 17.60 |
| 6 | 28.80 | - | 30.60 | 28.60 | 23.10 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 6 | 28.60 | - | 34.10 | 32.10 | 25.10 | - |
| 6 | 26.40 | - | 31.00 | 30.10 | 25.30 | - |
| 9 | 35.60 | 35.60 | 31.60 | 23.70 | 32.10 | 35.00 |
| 9 | 34.70 | 34.70 | 33.60 | 26.00 | 33.00 | 32.40 |
| 9 | 32.50 | 32.50 | 33.00 | 24.20 | 35.40 | 30.10 |
| 12 | 36.40 | - | 36.60 | 31.10 | 26.50 | - |
| 12 | 36.20 | - | 37.70 | 35.80 | 25.90 | - |
| 12 | 31.70 | - | 33.50 | 32.90 | 30.70 | - |
| 13 | 18.00 | 18.00 | 22.60 | 21.80 | 25.30 | 21.40 |
| 13 | 18.80 | 18.80 | 19.20 | 15.20 | 19.70 | 15.90 |
| 13 | 19.00 | 19.00 | 24.70 | 22.70 | 23.80 | 24.00 |
| 14 | 34.60 | - | 32.20 | 32.40 | 32.30 | - |
| 14 | 34.20 | - | 32.80 | 36.50 | 35.00 | - |
| 14 | 36.90 | - | 34.40 | 35.60 | 35.00 | - |
| 15 | 15.80 | 15.80 | 13.90 | 17.80 | 13.70 | 15.90 |
| 15 | 14.50 | 14.50 | 17.10 | 18.60 | 17.20 | 21.00 |
| 15 | 15.10 | 15.10 | 14.30 | 12.80 | 13.90 | 14.60 |
| 16 | 25.70 | 25.70 | 22.60 | 23.90 | 30.40 | 27.20 |
| 16 | 25.40 | 25.40 | 28.50 | 26.60 | 29.60 | 22.20 |
| 16 | 23.40 | 23.40 | 22.30 | 23.30 | 30.80 | 20.50 |
| 18 | 24.00 | 24.00 | 14.00 | 15.50 | 15.00 | 19.70 |
| 18 | 17.90 | 17.90 | 13.90 | 15.80 | 17.00 | 17.20 |
| 18 | 24.10 | 24.10 | 14.50 | 14.30 | 16.40 | 21.40 |
| 19 | 31.10 | - | 31.10 | 32.20 | 26.30 | - |

| F2 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 19 | 28.40 | - | 27.10 | 28.00 | 22.60 | - |
| 19 | 28.20 | - | 26.20 | 27.50 | 18.40 | - |
| 20 | 31.20 | 31.20 | 28.30 | 29.60 | 24.00 | 29.90 |
| 20 | 29.10 | 29.10 | 27.50 | 26.20 | 33.40 | 27.10 |
| 20 | 31.90 | 31.90 | 31.70 | 32.10 | 32.00 | 28.40 |
| 21 | 27.30 | 27.30 | 27.00 | 25.00 | 22.80 | 24.70 |
| 21 | 25.70 | 25.70 | 29.70 | 23.40 | 21.60 | 30.80 |
| 21 | 24.60 | 24.60 | 24.00 | 22.00 | 23.50 | 26.70 |
| 23 | 20.10 | 20.10 | 18.90 | 12.90 | 19.10 | 21.80 |
| 23 | 19.30 | 19.30 | 16.40 | 15.00 | 18.20 | 18.80 |
| 23 | 17.20 | 17.20 | 18.50 | 14.50 | 20.30 | 21.70 |
| 24 | 32.20 | 32.20 | 23.70 | 28.50 | 30.20 | 30.60 |
| 24 | 29.80 | 29.80 | 26.40 | 27.10 | 29.30 | 29.30 |
| 24 | 30.20 | 30.20 | 22.80 | 25.60 | 28.40 | 30.40 |
| 25 | - | 35.90 | - | - | - | 28.00 |
| 25 | - | 36.20 | - | - | - | 32.00 |
| 25 | - | 37.70 | - | - | - | 31.50 |
| 26 | - | 34.70 | - | - | - | 43.80 |
| 26 | - | 29.60 | - | - | - | 35.70 |

| | | | | | | |
|---|---|-------|---|---|---|-------|
| 26 | - | 28.00 | - | - | - | 40.30 |
| 27 | - | 28.80 | - | - | - | 27.90 |
| 27 | - | 22.90 | - | - | - | 29.80 |
| 27 | - | 26.70 | - | - | - | 33.30 |
| 28 | - | 23.70 | - | - | - | 25.10 |
| 28 | - | 22.90 | - | - | - | 25.20 |
| 28 | - | 28.60 | - | - | - | 23.90 |
| 29 | - | 35.40 | - | - | - | 34.70 |
| 29 | - | 30.30 | - | - | - | 32.90 |
| 29 | - | 31.40 | - | - | - | 39.00 |
| 30 | - | 31.80 | - | - | - | 28.20 |
| 30 | - | 24.40 | - | - | - | 24.00 |
| 30 | - | 29.20 | - | - | - | 27.20 |
| <p>*1st group: values considered for the hydration evaluation at time-points 2 hours, 4 hours and 8 hours after products' application</p> <p>**2nd group: values considered for the hydration evaluation at time-point 24 hours after products' application</p> | | | | | | |

Table S5.11 – Information regarding the hydration (A.U.) values from all the subjects at time zero (T0), and .after application of the F3, 2h, 4h, 8h and 24h.

| F3 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 1 | 35.50 | 27.60 | 35.00 | 30.80 | 26.10 |
| 1 | 33.00 | 23.70 | 34.60 | 29.80 | 25.20 |
| 1 | 39.60 | 29.60 | 33.40 | 29.30 | 24.40 |
| 2 | 25.70 | 33.50 | 32.30 | 29.50 | 28.20 |
| 2 | 34.70 | 33.80 | 34.20 | 38.00 | 32.20 |
| 2 | 26.50 | 33.80 | 29.40 | 35.50 | 26.20 |
| 4 | 36.00 | 32.90 | 34.80 | 33.70 | 32.10 |
| 4 | 36.00 | 28.80 | 32.60 | 31.70 | 30.00 |
| 4 | 33.50 | 30.80 | 30.60 | 33.70 | 28.50 |
| 5 | 17.70 | 24.20 | 23.40 | 24.10 | 27.30 |
| 5 | 20.80 | 27.00 | 27.90 | 19.00 | 25.60 |
| 5 | 16.90 | 25.80 | 23.40 | 23.10 | 27.00 |
| 6 | 28.50 | 35.00 | 32.80 | 24.10 | 23.20 |
| 6 | 23.80 | 27.10 | 28.40 | 23.80 | 23.20 |
| 6 | 30.90 | 31.80 | 32.50 | 27.20 | 28.60 |
| 9 | 37.60 | 28.40 | 21.40 | 27.80 | 30.30 |
| 9 | 36.60 | 24.40 | 19.50 | 32.60 | 28.20 |
| 9 | 35.30 | 28.10 | 24.50 | 29.50 | 28.00 |
| 12 | 41.90 | 36.30 | 34.90 | 28.70 | 29.40 |
| 12 | 33.50 | 30.30 | 32.30 | 29.70 | 26.70 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 12 | 36.10 | 36.10 | 37.30 | 27.70 | 30.30 |
| 13 | 24.20 | 28.80 | 25.60 | 26.60 | 26.20 |
| 13 | 26.80 | 32.90 | 32.40 | 31.70 | 25.60 |
| 13 | 20.80 | 29.90 | 23.30 | 27.20 | 31.00 |
| 14 | 35.00 | 31.60 | 30.50 | 30.10 | 30.60 |
| 14 | 40.50 | 32.50 | 34.40 | 33.20 | 33.40 |
| 14 | 40.50 | 30.30 | 28.90 | 24.70 | 28.50 |
| 15 | 18.40 | 16.90 | 17.00 | 18.80 | 21.20 |
| 15 | 14.40 | 13.70 | 15.00 | 14.20 | 16.20 |
| 15 | 17.70 | 16.50 | 17.80 | 17.90 | 21.60 |
| 16 | 35.30 | 37.40 | 37.30 | 39.50 | 30.80 |
| 16 | 30.00 | 42.40 | 31.70 | 35.00 | 30.20 |
| 16 | 31.60 | 35.80 | 35.00 | 44.00 | 30.30 |
| 18 | 24.40 | 19.60 | 20.60 | 19.10 | 21.00 |
| 18 | 24.60 | 23.80 | 22.50 | 23.70 | 21.80 |
| 18 | 27.70 | 27.90 | 24.20 | 25.90 | 25.00 |
| 19 | 25.40 | 21.00 | 24.50 | 14.50 | 22.50 |

| F3 | | | | | |
|---------|-------|-------|-------|-------|-------|
| Subject | t0 | t2 | t4 | t8 | t24 |
| 19 | 28.90 | 17.30 | 20.90 | 18.00 | 19.70 |

| | | | | | |
|----|-------|-------|-------|-------|-------|
| 19 | 30.40 | 18.80 | 20.90 | 17.20 | 19.50 |
| 20 | 24.20 | 21.50 | 20.00 | 33.30 | 19.30 |
| 20 | 27.10 | 17.00 | 14.40 | 27.30 | 29.30 |
| 20 | 29.50 | 21.00 | 16.50 | 33.70 | 21.10 |
| 21 | 31.30 | 32.10 | 29.90 | 31.20 | 28.70 |
| 21 | 26.30 | 30.20 | 25.20 | 29.10 | 24.50 |
| 21 | 23.80 | 24.10 | 28.00 | 30.00 | 26.90 |
| 23 | 15.80 | 16.20 | 10.50 | 12.70 | 23.60 |
| 23 | 19.20 | 16.50 | 12.40 | 13.50 | 19.00 |
| 23 | 15.10 | 15.60 | 13.20 | 16.70 | 20.30 |
| 24 | 29.50 | 35.90 | 29.40 | 37.00 | 27.90 |
| 24 | 31.20 | 38.10 | 29.30 | 29.70 | 33.50 |
| 24 | 33.90 | 36.40 | 30.70 | 33.60 | 31.10 |
| 25 | 34.50 | - | - | - | 36.70 |
| 25 | 41.10 | - | - | - | 35.70 |
| 25 | 34.70 | - | - | - | 34.90 |
| 26 | 34.40 | - | - | - | 41.30 |
| 26 | 29.10 | - | - | - | 36.60 |
| 26 | 30.30 | - | - | - | 38.40 |
| 27 | 28.70 | - | - | - | 30.90 |
| 27 | 28.90 | - | - | - | 29.80 |
| 27 | 26.00 | - | - | - | 31.10 |
| 28 | 24.40 | - | - | - | 26.70 |

| | | | | | |
|----|-------|---|---|---|-------|
| 28 | 27.80 | - | - | - | 23.70 |
| 28 | 27.50 | - | - | - | 26.80 |
| 29 | 38.80 | - | - | - | 35.40 |
| 29 | 35.70 | - | - | - | 34.70 |
| 29 | 42.10 | - | - | - | 39.40 |
| 30 | 33.20 | - | - | - | 28.90 |
| 30 | 35.00 | - | - | - | 33.70 |
| 30 | 35.70 | - | - | - | 33.30 |

Table S5.12 – Data analysis AADE of the hydration values from all the subjects at time zero (T0), and .after application of the F3, 2h, 4h, 8h and 24h

| F3 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 1 | 35.50 | - | 27.60 | 35.00 | 30.80 | - |
| 1 | 33.00 | - | 23.70 | 34.60 | 29.80 | - |
| 1 | 39.60 | - | 29.60 | 33.40 | 29.30 | - |
| 2 | 25.70 | 25.70 | 33.50 | 32.30 | 29.50 | 28.20 |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 2 | 34.70 | 34.70 | 33.80 | 34.20 | 38.00 | 32.20 |
| 2 | 26.50 | 26.50 | 33.80 | 29.40 | 35.50 | 26.20 |
| 4 | 36.00 | - | 32.90 | 34.80 | 33.70 | - |
| 4 | 36.00 | - | 28.80 | 32.60 | 31.70 | - |
| 4 | 33.50 | - | 30.80 | 30.60 | 33.70 | - |
| 5 | 17.70 | 17.70 | 24.20 | 23.40 | 24.10 | 27.30 |
| 5 | 20.80 | 20.80 | 27.00 | 27.90 | 19.00 | 25.60 |
| 5 | 16.90 | 16.90 | 25.80 | 23.40 | 23.10 | 27.00 |
| 6 | 28.50 | - | 35.00 | 32.80 | 24.10 | - |
| 6 | 23.80 | - | 27.10 | 28.40 | 23.80 | - |
| 6 | 30.90 | - | 31.80 | 32.50 | 27.20 | - |
| 9 | 37.60 | 37.60 | 28.40 | 21.40 | 27.80 | 30.30 |
| 9 | 36.60 | 36.60 | 24.40 | 19.50 | 32.60 | 28.20 |
| 9 | 35.30 | 35.30 | 28.10 | 24.50 | 29.50 | 28.00 |
| 12 | 41.90 | - | 36.30 | 34.90 | 28.70 | - |
| 12 | 33.50 | - | 30.30 | 32.30 | 29.70 | - |
| 12 | 36.10 | - | 36.10 | 37.30 | 27.70 | - |
| 13 | 24.20 | 24.20 | 28.80 | 25.60 | 26.60 | 26.20 |
| 13 | 26.80 | 26.80 | 32.90 | 32.40 | 31.70 | 25.60 |
| 13 | 20.80 | 20.80 | 29.90 | 23.30 | 27.20 | 31.00 |
| 14 | 35.00 | - | 31.60 | 30.50 | 30.10 | - |
| 14 | 40.50 | - | 32.50 | 34.40 | 33.20 | - |
| 14 | 40.50 | - | 30.30 | 28.90 | 24.70 | - |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 15 | 18.40 | 18.40 | 16.90 | 17.00 | 18.80 | 21.20 |
| 15 | 14.40 | 14.40 | 13.70 | 15.00 | 14.20 | 16.20 |
| 15 | 17.70 | 17.70 | 16.50 | 17.80 | 17.90 | 21.60 |
| 16 | 35.30 | 35.30 | 37.40 | 37.30 | 39.50 | 30.80 |
| 16 | 30.00 | 30.00 | 42.40 | 31.70 | 35.00 | 30.20 |
| 16 | 31.60 | 31.60 | 35.80 | 35.00 | 44.00 | 30.30 |
| 18 | 24.40 | 24.40 | 19.60 | 20.60 | 19.10 | 21.00 |
| 18 | 24.60 | 24.60 | 23.80 | 22.50 | 23.70 | 21.80 |
| 18 | 27.70 | 27.70 | 27.90 | 24.20 | 25.90 | 25.00 |
| 19 | 25.40 | - | 21.00 | 24.50 | 14.50 | - |

| F3 | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|
| Subject | t0* | t0** | t2* | t4* | t8* | t24** |
| 19 | 28.90 | - | 17.30 | 20.90 | 18.00 | - |
| 19 | 30.40 | - | 18.80 | 20.90 | 17.20 | - |
| 20 | 24.20 | 24.20 | 21.50 | 20.00 | 33.30 | 19.30 |
| 20 | 27.10 | 27.10 | 17.00 | 14.40 | 27.30 | 29.30 |
| 20 | 29.50 | 29.50 | 21.00 | 16.50 | 33.70 | 21.10 |
| 21 | 31.30 | 31.30 | 32.10 | 29.90 | 31.20 | 28.70 |
| 21 | 26.30 | 26.30 | 30.20 | 25.20 | 29.10 | 24.50 |
| 21 | 23.80 | 23.80 | 24.10 | 28.00 | 30.00 | 26.90 |
| 23 | 15.80 | 15.80 | 16.20 | 10.50 | 12.70 | 23.60 |

| | | | | | | |
|----|-------|-------|-------|-------|-------|-------|
| 23 | 19.20 | 19.20 | 16.50 | 12.40 | 13.50 | 19.00 |
| 23 | 15.10 | 15.10 | 15.60 | 13.20 | 16.70 | 20.30 |
| 24 | 29.50 | 29.50 | 35.90 | 29.40 | 37.00 | 27.90 |
| 24 | 31.20 | 31.20 | 38.10 | 29.30 | 29.70 | 33.50 |
| 24 | 33.90 | 33.90 | 36.40 | 30.70 | 33.60 | 31.10 |
| 25 | - | 34.50 | - | - | - | 36.70 |
| 25 | - | 41.10 | - | - | - | 35.70 |
| 25 | - | 34.70 | - | - | - | 34.90 |
| 26 | - | 34.40 | - | - | - | 41.30 |
| 26 | - | 29.10 | - | - | - | 36.60 |
| 26 | - | 30.30 | - | - | - | 38.40 |
| 27 | - | 28.70 | - | - | - | 30.90 |
| 27 | - | 28.90 | - | - | - | 29.80 |
| 27 | - | 26.00 | - | - | - | 31.10 |
| 28 | - | 24.40 | - | - | - | 26.70 |
| 28 | - | 27.80 | - | - | - | 23.70 |
| 28 | - | 27.50 | - | - | - | 26.80 |
| 29 | - | 38.80 | - | - | - | 35.40 |
| 29 | - | 35.70 | - | - | - | 34.70 |
| 29 | - | 42.10 | - | - | - | 39.40 |
| 30 | - | 33.20 | - | - | - | 28.90 |
| 30 | - | 35.00 | - | - | - | 33.70 |
| 30 | - | 35.70 | - | - | - | 33.30 |

*1st group: values considered for the hydration evaluation at time-points 2 hours, 4 hours and 8 hours after products' application

**2nd group: values considered for the hydration evaluation at time-point 24 hours after products' application