



Sparsh
Redefining The Touch Technology

Surface Treated Pigments

For Cosmetics & Personal Care Applications

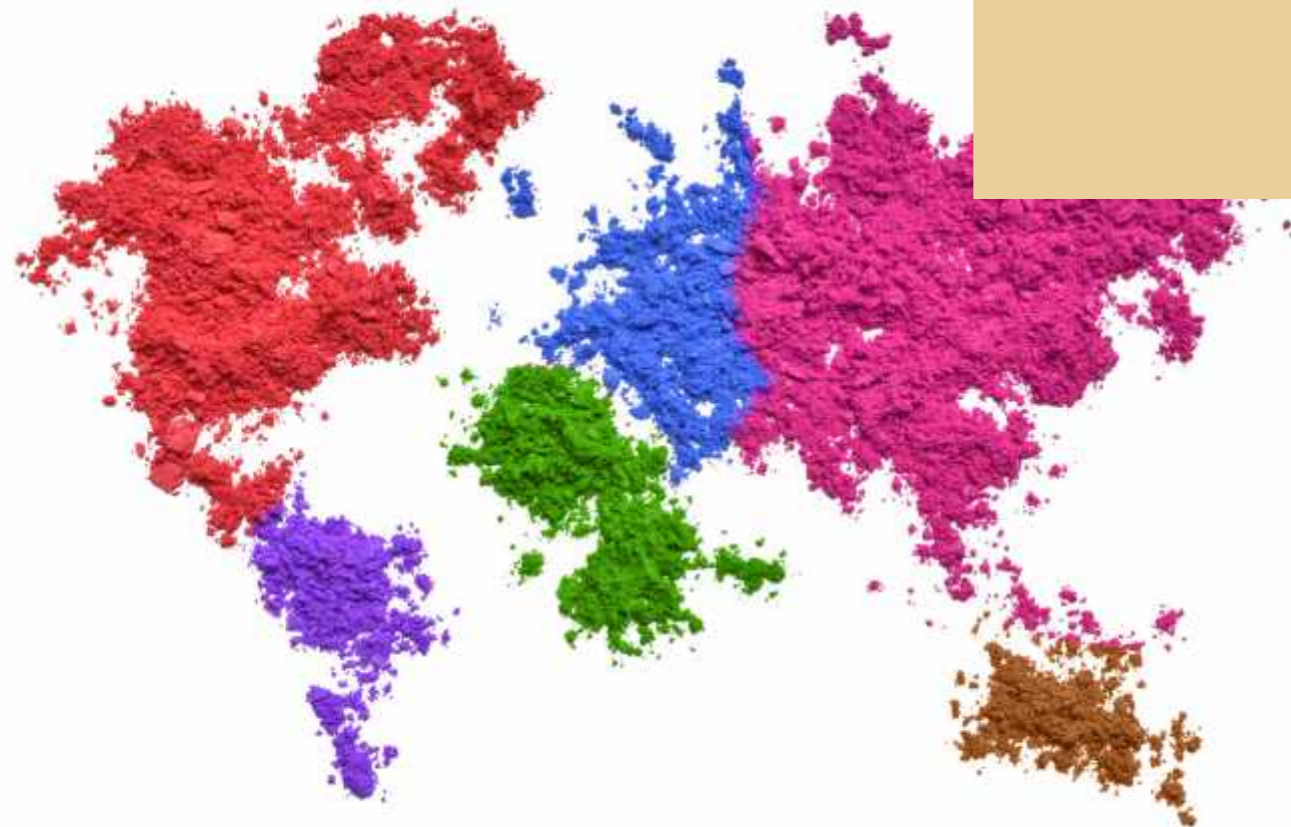
A vibrant yellow background is filled with falling gold and silver confetti. Three women are captured in a joyful moment, celebrating. The woman on the left wears a dark purple dress and has her arms raised. The woman in the center wears a teal dress and is laughing with her hands near her face. The woman on the right wears a bright red dress and is smiling broadly. In the top right corner, the text 'COLORS OF HAPPINESS' is displayed in a bold, grey font. The word 'COLORS' is partially obscured by a colorful smiley face icon, and 'OF' is in a smaller, blue font with a blue smiley face icon above it.

**COLORS OF
HAPPINESS**

Company Overview

The global champion of dyes & pigments, Koel is an actual manufacturer of specialty pigments for Food & Beverage, Pet Food & Animal Feed, Pharmaceutical, Cosmetics, Personal Care and Home Care industries

- 45+ years of legacy
- 2 robust manufacturing facilities
- Short lead time
- 250+MT per month production capacity
- Catering to 6+ industries
- Global MNC customer base
- 65+ countries distribution network



Global Certifications



USFDA
Certified
Dyes &
Pigments



CFDA
Approved
TiO2



- R&D support
- Documentation Support
- 250+ Product SKU's
- 30+ unique Q.C. checks



**Evolution of Science
behind the textures with...**

 **Sparsh**
Redefining The Touch Technology

Welcome to Surface Treated Pigments

Worldwide, the cosmetics industry is seeing a significant demand in pigments with various kinds of surface treatments, to achieve superior functional properties & enhanced aesthetic appeal for the final products.

Koel Innovation Centre launches the next-gen surface treatments designed to enable the formulators to enhance their product experience & help them stand out with a difference!

The surface treatment technology is designed to suit majority of all inorganic & organic pigments to enhancing the finished product experience & help them stand out with elegance.

Limitation with the Non Treated Pigment...

The pigments and extender pigments, poor in its ability to spread i.e. spreadability, hard and heavy (coarse), that is devoid of elasticity, and present a dragging feeling, thus gives physical irritation to the skin.

Surface Treated Pigments

Selection of the proper surface treatment is critical in color cosmetic formulations. Koel's surface treatments enable ease of formulation with improved stability while improving pigment performance, wearability and feel.



Why Koel's Surface Treatment?



- Unique technology
- 100% coverage of surface treatment.
- No additional milling
- Excellent dispersibility
- Super soft velvet touch
- No bleeding issues
- Very strong bonding of the pigment & treatment



Treatments available:

- Silane Treatment (Water Dispersible Pigments)
- Alkyl Silane Treatment (Organic Pigments)
- Alkyl Silane Treatment (Inorganic Pigments)
- Dimethicone Treatment (Inorganic Pigments)
- Methicone Treatment (Inorganic Pigments)
- FluoroSilane Treatment (Inorganic Pigments)
- Lauryl Lysine Treatment (Inorganic Pigments)
- Hydrogenated Lecithin Treatment (Inorganic Pigments)
- Botanical Lipid Avacado Treatment (Inorganic Pigments)



**Silane treated
Titanium Dioxide in water**



**Silane treated
Titanium Dioxide in Oil**



Regular inorganic pigments face difficulties in getting dispersed in water based cosmetic & Personal care formulations, Sparsh ST introduces basic pigments treated with a proprietary technology for superior dispersability in water based formulations.

INCI Name : Methoxy PEG-10 propyltrimethoxysilane
Approved for EU, USA, Japan & China.

Pigments available :

- Iron oxide Red - Sparsh 1919 ST
- Iron oxide Yellow - Sparsh 1929 ST
- Iron oxide Black - Sparsh 1999 ST
- Titanium dioxide - Sparsh 1910 ST

Features:

- Proprietary technology
- Superior wet ability for the inorganic pigments
- No sedimentation in aqueous formulations
- Excellent stability in aqueous formulations
- Avoids any kind of color separation
- Easy to redisperse in water

Applications:

Water based foundations, Shampoos , W/o emulsions, Creams, Lotions, Water based sindoors, Nailpolish.

Lake Pigments/Organic Pigments with Alkyl Silane Surface Treatment



Alkyl Silane treated
Brilliant Blue in water



Alkyl Silane treated
Brilliant Blue in oil



Non Coated Organic lake pigments or D&C Lake Pigments have always faced technical challenges with respect to oil absorption & formulators need to put additional efforts in mixing & dispersing the powder pigments during incorporation. Koel presents the unique Hydrophobic treatment for the D&C lake pigments offering a robust advantage of excellent oil absorption property with superior texture & very easy to disperse in oil based medium like mineral oils, paraffin oils, castor oil, etc.

INCI Name : Triethoxycaprylylsilane (Alkyl Silane).

CAS No : 2943-75-1

EINECS No : 220-941-2

Approved for EU, USA, Japan & China

Pigments available :

- D&C Red 27 lake - Sparsh 1041 CS
- D&C Red 28 lake - Sparsh 1042 CS
- D&C Red 7 Ca lake - Sparsh 1112 CS
- D&C Red 6 Salt - Sparsh 1512 CS
- D&C Red 6 Ba lake - Sparsh 1511 CS
- D&C Red 21 lake - Sparsh 1303 CS
- D&C red 22 lake - Sparsh 1304 CS
- FD&C Blue 1 lake - Sparsh 1900 CS
- FD&C Yellow 5 lake - Sparsh 1180 CS
- D&C Red 33 lake - Sparsh 1002 CS

Features:

- Excellent hydrophobicity
- Excellent oil absorption in formulations.
- Superior softness & smoothness on application.
- Shear resistant coating - chemically bound key properties
- Easy dispersibility in oils and silicones (at over 50% solids)
- Allows fluid and bright high solid dispersion
- Improved adhesion & wear resistance
- No hydrogen potential
- Compatible with most cosmetic ingredients.

Applications:

Lip-sticks, Lip Gloss, W/O or O/W emulsions, Lotions, creams, cream in powder form, Water proof Mascara, Mousse, Pressed Powders, Loose Powders, 2 Way cakes.

Inorganic Pigments with Alkyl Silane Surface Treatment



Alkyl Silane treated
Iron oxide Yellow in water



Alkyl Silane treated
Iron oxide Yellow in oil



Sparsh CS is a unique Hydrophobic Surface Treatment for Inorganic Pigments with Triethoxycaprylylsilane or Alkyl Silane to provide excellent hydrophobicity, bright shades & superior textures. Sparsh CS offers easy dispersion of pigments in mineral oils, esters & silicone fluids. This treatment allows incorporation of high pigment loads to achieve a powdery sensation on application in hydrous compact formulations.

INCI Name : Triethoxycaprylylsilane (Alkyl Silane)

CAS No : 2943-75-1

EINECS No : 220-941-2

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 CS
- Iron oxide Yellow - Sparsh 1929 CS
- Iron oxide Black - Sparsh 1999 CS
- Titanium dioxide - Sparsh 1910 CS
- Talc - Sparsh 1188 CS
- Mica - Sparsh 1197 CS
- Mica gloss - Sparsh 1702 CS
- Ultramarine Violet - Sparsh 1075 CS
- Ultramarine Blue - Sparsh 1071 CS
- Chromium oxide green - Sparsh 1881 CS

Features:

- High hydrophobicity compared to methicone treated pigments.
- Excellent wet ability in cosmetic oils & good oil absorption
- Superior softness & smoothness on application
- Improvement in compatibility of dispersed solids & vehicle for lip & eye products
- Shear resistant coating - chemically bound key properties
- Improved adhesion & wear resistance
- No hydrogen potential
- Maximum water repellency
- Easy to disperse in esters, hydrocarbons and silicone fluids

Applications:

Cream Eye Shadows, Lip-sticks, Liquid Lip-sticks, Foundations, W/O or O/W emulsions, Lotions, creams, cream in powder form, Water proof Mascara, Mousse, 2 Way cakes.



Dimethicone treated
Iron oxide Red in water



Dimethicone treated
Iron oxide Red in oil



Koel's Dimethicone treatment provides enhanced hydrophobic property with excellent light or smooth feel. & applicable for oil-based systems & also useful in anhydrous products. Sparsh DM is best suited for waterproof cosmetics & has lower Hydrogen potential compared to other hydrophobic treatments.

INCI Name : Dimethicone

CAS No : 9006-65-9

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 DM
- Talc - Sparsh 1188 DM
- Iron oxide Yellow - Sparsh 1929 DM
- Mica - Sparsh 1197 DM
- Iron oxide Black - Sparsh 1999 DM
- Mica gloss - Sparsh 1702 DM
- Titanium dioxide - Sparsh 1910 DM

Features:

- Impart high water repellency, low odour, high compressibility & good spread ability for powders.
- Imparts good slip effect, soft feel & lubricity on skin.
- Easy to introduce in water based systems.
- No agglomeration & less stirring time required.
- Provides optical effect in skin care products.
- Imparts natural illuminating effect.
- Imparts excellent levelling, adhesion & easy run out in powders.
- Enhances pearly finish & better deposition on skin.

Applications:

Wet/Dry Powder formulations, Water in Silicone emulsions, Foundations, Sunscreens, Mascara.



Methicone treated Iron oxide Red in water



Methicone treated Iron oxide Red in oil



The coating imparts unique sensory experience to the formulations in which they are incorporated due to its unique cross-linked coating layers. The treatment offers very high hydrophobicity, mostly not solubilised by common solvents. Methicone treated pigments highly recommended for pressed powders.

INCI name : Methicone

CAS No : 9004-73-3

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 OM
- Iron oxide Yellow - Sparsh 1929 OM
- Iron oxide Black - Sparsh 1999 OM
- Titanium dioxide - Sparsh 1910 OM
- Talc - Sparsh 1188 OM
- Mica - Sparsh 1197 OM
- Mica gloss - Sparsh 1702 OM

Features:

- Excellent dispersion & spreading of all inorganic pigments.
- Helps dissolve pigments very well in silicone oils.
- Offers dry skin feel on application with good slip & spread-ability.
- Stable at Ph from 3 to 9.
- Excellent sensory effect in wet or dry powder formulations.

Applications:

Lotions, creams, anti-ageing products, mousse, concealers, eye shadows, foundations, Concealer foundations, Mascara, Compact Powders



FluoroSilane treated
Iron oxide Black in water



FluoroSilane treated
Iron oxide Black in oil



The unique surface treatment renders pigments to be extremely lipophobic and hydrophobic, both at the same time. This treatment allows pigments to repel water and sebum on the skin. Interestingly, the adherent properties of the FS-treated pigments enhance the long-wear effect of these treated pigments even in the presence of sebum and water.

INCI name : Perfluorooctyl Triethoxysilane

CAS No : 51851-37-7

EINECS No : 257-473-3

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 FS
- Iron oxide Yellow - Sparsh 1929 FS
- Iron oxide Black - Sparsh 1999 FS
- Titanium dioxide - Sparsh 1910 FS
- Talc - Sparsh 1188 FS
- Mica - Sparsh 1197 FS

Features:

- Improved water resistance.
- Excellent spreading and adhesion to the skin.
- Prevent the agglomeration of pigments into fine lines and wrinkles.
- PFOA-free & PFOS-free : meet the goals for the U.S. Environmental Protection Agency
- Soft touch on powders.
- Shear resistant coating.
- Good compressibility.

Applications:

Mascaras, long wear liquid foundation, dry water foundation and pressed powder foundation, Smudge proof eye liner & mascara, Smudge proof make up.



**Redefining the touch
technology naturally...**



Sparsh
Redefining The Nature's Touch



Lauryl Lysine treated
Talc in water



Lauryl Lysine treated
Talc in oil



Natural Surface Treatment of ECOCERT Pigments (Natural Pigments) with Lauryl Lysine for super soft sensorial effect, excellent lubricity & better compressibility for powder-based formulations. This treatment provides a strong creamy and soft feel upon application.

INCI name : Lauryl Lysine

CAS No : 52315-75-0

EINECS No: 257-843-4

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 PP
- Iron oxide Yellow - Sparsh 1929 PP
- Iron oxide Black - Sparsh 1999 PP
- Titanium dioxide - Sparsh 1910 PP
- Talc - Sparsh 1188 PP
- Mica - Sparsh 1197 PP
- Mica gloss - Sparsh 1702 PP

Features:

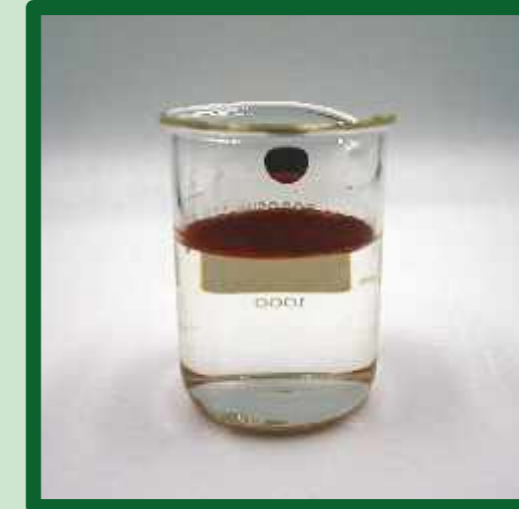
- Naturally derived Lauryl Lysine.
- Lubricating property. Imparts lubricious, smooth & moist feel.
- Good hydrophobicity
- Imparts wet feel on skin for make-up powders.
- Pigment surfaces are smooth, flat & less fluffy compared to Alkyl Silane treated pigments.
- Enhances the wet feel of the make-up on the skin.
- Improved resistance to breakage & dusting.

Applications:

Loose Powders, Compact Powders, Pressed Powders, Bronzers, Face powder, Eye shadows, Blush powder Powder cream Products, Pencils, Eyeliners, Mascaras, Sunscreens & Dry Foundations



Hydrogenated Lecithin treated
Iron oxide Red in water



Hydrogenated Lecithin treated
Iron oxide Red in oil



Natural Surface Treatment of ECOCERT Pigments (Natural Pigments) with Hydrogenated Lecithin treatment, is highly hydrophobic & provides a highly moisturising & creamy texture. HLC Treated pigment have good affinity to the skin.

INCI name : Hydrogenated Lecithin

CAS No : 92128-87-5

EINECS No: 295-786-7

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 HLC
- Iron oxide Yellow - Sparsh 1929 HLC
- Iron oxide Black - Sparsh 1999 HLC
- Titanium dioxide - Sparsh 1910 HLC
- Talc - Sparsh 1188 HLC
- Mica - Sparsh 1197 HLC

Features:

- Non-GMO.
- Natural Coverage.
- Enhance sensorial effect.
- Excellent slip & spreadability.

Applications:

Emulsions, hot pours, powders, & Anhydrous gels.



**Botanical Lipid Avocado treated
Titanium dioxide in water**



**Botanical Lipid Avocado treated
Titanium dioxide in oil**



Natural Surface Treatment of ECOCERT Pigments (Natural Pigments) with Avocado oil, Hydrogenated Vegetable oil & Alpha-Tocopherol for superior hydrophobicity & imparts coverage and spreadability to formulas. A key ad. BA treatment provides pigments with a creamy feel and good affinity to the skin adds to the skin moisture.

INCI name : PerseaGratissima (Avocado) oil & Hydrogenated Vegetable oil & Alpha-Tocopherol

CAS No : 8024-32-6, 68334-28-1

EINECS No: 232-428-0, 269-820-6

Approved for EU, USA, Japan & China

Pigments available :

- Iron oxide Red - Sparsh 1919 BA
- Iron oxide Yellow - Sparsh 1929 BA
- Iron oxide Black - Sparsh 1999 BA
- Titanium dioxide - Sparsh 1910 BA

Features:

- Natural origin.
- Water resistant.
- Nourishing & homogeneous feel.
- Excellent spreadability.
- Long-wear effect.
- Better press ability for pressed powder formulations.
- Compatible with different types of oils & media.

Applications:

Foundations, Cold-Pressed formulations, Loose Powders, Compact Powders, Pressed Powders, Bronzers, Face powder, eye shadows, Blush powder, Powder cream Products, Pencils, Eyeliners, Mascaras, Sunscreens, & Dry Foundations

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