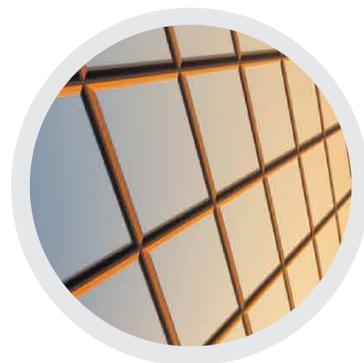


# Composite ACCB-33

## Non-Nano Composite CB Powder



Carbon Black provides deep, intense color due to small particle sizes but is within the nano size limits. Across industry, solutions have varied for companies that do not want to report nano products in their formulas. Completely abandoning the use of nano-particles means discarding high performing raw materials however an alternative is a material that offers the perceived benefits of nano-materials but in micron sized form.

An innovative solution is the concept of dispersed nano-particles encapsulated in a micron sized acrylate copolymer. This patent pending technology initiates the process with a dispersion having already decreased the aggregate size then continuously controls and maintains against re-agglomeration ensuring enhanced efficacy of this material. The outer matrix of the composite allows for a micron sized powder with mechanical resistance during use and enhanced tactile properties in application.



Fig. 1: Image showing comparable, if not better, performance of mascara made with Composite ACCB-33 as opposed to a formula containing both Black 2 (CI 77266) and microspheres (left and right, respectively)

### Composite ACCB-33

A Black 2 (CI 77266) encapsulated in an acrylate copolymer matrix composite with concentrations ranging from 25-40%. The finished non-nano powder has a particle size range of 7-12µm and is typically used in mascara and eyeliner formulations. Composite ACCB-33 is able to provide excellent results in color, volume and tactility all while being at the micron scale.

- Suitability in mascara and eyeliner formulations is due to the ability to offer additional color intensity when used in combination with black iron oxide.
- The spherical nature and size of these particles impart volume in mascaras without the potential of resulting in the undesirable "graying effect" commonly seen when adding white microspheres.
- This material can also be used for its thickening properties resulting from its oil absorption nature.
- Uniquely, this product has the ability to be employed as a 2-in-1 benefit (Figure 1) to create volumizing effects and higher payoff than a volumizing formula containing both a CB dispersion and microspheres.

INCI Name: Kaolin (And) Black 2 (And) Acrylates Copolymer (And) Sodium Polyacrylate



KMA-070-BR  
Composite Mascara

#### Part 1

- TECWAX OZOQUERITA - Cosmotec: Ozokerite 9.00%
- Tecwax Abelha - Cosmotec: Beeswax 8.50%
- KOBOGUARD® 5400 IDD - Kobo Products: Hydrogenated Polycyclopentadiene (And) Isododecane 5.00%
- TECWAX MCM - Cosmotec: Microcrystallin Wax 4.00%
- ÁCIDO ESTEÁRICO - M.Cassab: Stearic Acid 3.50%
- TECWAX CARNAUBA - Cosmotec: Carnauba Wax 3.20%
- COSMOL™ 182V - Ikeda/Kobo Products: Sorbitan Sesquiossearate 1.00%

#### Part 2

- Deionized Water - Water 38.50%
- AMP 95 - Mapric: AminoMethyl Propanol 1.00%
- Natrosol® 250 HHR CS - Ashland: Hydroxyethylcellulose 0.30%

#### Part 3

- Cosmoguard® SL-CP - Cosmotec: Phenoxyethanol (and) Ethylhexylglycerin 1.00%

#### Part 4

- WSJ22BNF-O - Kobo Products: Water (And) Acrylates/Ethylhexyl Acrylate Copolymer (And) Iron Oxides (CI 77499) (And) Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (And) Aminomethyl Propanol 15.00%

- COMPOSITE ACCB-33 - Kobo Products: Kaolin (And) Black 2 (And) Acrylates Copolymer (And) Sodium Polyacrylate 7.00%
- Permethyl® 99A - Cosmotec: Isododecane 3.00%

#### Manufacturing Procedure

1. Heat Part 1 to 80°C in auxiliary tank.
2. In main tank, add Natrosol® 250 HHR CS to deionized water under propeller mixing. Mix until Natrosol® is fully hydrated. Add the rest of Part 2 and heat to 80°C.
3. Add Part 1 to Part 2 in main tank with propeller and sweep agitation at 80°C.
4. Cool to 50°C.
5. Add Part 3 ingredients at 50°C.
6. Add Part 4 at 45°C.
7. Cool to 25-27°C.

#### Description

This mascara features Composite ACCB-33, a Black 2 (CI 77266) encapsulated in an acrylate copolymer matrix composite, that provides mechanical resistance during use and enhanced tactile properties in application while intensifying the black color. Kobo's Resin Composite, KOBOGUARD® 5400 IDD, gives a quick build up with a water-resistant film and aids in long wear. COSMOL™ 182V contributes to formula stability. Kobo's Pigmentary Dispersion, WSJ22BNF-O provides a deep black shade and film-forming properties.

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