



BC

TopScreen ED

Bio-wax Barrier Coatings



TopScreen ED (Ultra)

Certification and compliance

TopScreen ED (Ultra) has been developed to substitute paraffin in food packaging to improve the direct food contact health safety, to increase the sustainability and to guarantee the compostability of your packaging paper and board.

Compliance:

- COMMISSION REGULATION (EC) No 1935/2004 of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC.
- COMMISSION REGULATION (EC) No 10/2011 on plastic materials and articles intended to come into contact with food.
- COMMISSION REGULATION (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.
- Bfr XIV on polymer dispersions and Bfr XXXVI on paper and board for food contact.
- FDA 21 CFR § 176.170. Components of paper and paperboard in contact with aqueous and fatty foods.
- FDA 21 CFR § 176.180. Components of paper and paperboard in contact with dry food.
- Italian Regulation: Decreto Ministeriale 21/03/1973 - DPR 777/82 (and other modifications).
- NESTLE STANDARDS on materials in contact with food.

Certificates:

- Vinçotte compostability and home compostability certificates according the European norm EN 13432.
- Wessling certificate on MOSH/MOAH residue measurement

Product	Viscosity (mPa.s at 100°C)
TopScreen ED	11
TopScreen ED8 – dark coloured surface applications	11
TopScreen Ultra 35	32
TopScreen Ultra 65	90
TopScreen Ultra 75	130
TopScreen Ultra 100	300



TopScreen ED (Ultra)

TopScreen ED and TopScreen ED Ultra are solid bio-wax based barrier coatings, consisting of up to 100% renewable substance, which meet direct food contact regulations.

Our expertise in tuning barrier coatings will be an important asset in obtaining optimum performance for your specialty paper and board. We cover barrier properties like oleophobicity, hydrophobicity, flame retardancy and resistance to water vapor transmission. With bio-wax based TopScreen ED (Ultra) performance barrier coatings, derived from up to 100% sustainably produced vegetable oils, you can create your sustainable paper and board packaging solutions.

Ecological Barrier Coating Solutions. The global urge for industry and consumers to adopt environmental friendly packaging solutions, produced of renewable source, creates major opportunities for paper and board packaging producers to substitute mineral oil based paraffin and plastic packaging materials. TopScreen ED (Ultra) gives the paper and board packaging an adaptable functional barrier performance to preserve food stuff. The treated paper and board is further fully recyclable, biodegradable and compostable. The compostability has been certified by Vinçotte (www.okcompost.be) according the European norm EN 13432, both for "OK-Compost" and "OK Compost Home".

Application

TopScreen ED (Ultra) can be applied on existing wax coaters at temperatures between 80°C and 160°C depending on the used grade. TopScreen ED (Ultra) is available in a variety of grades, adapted to specific requirements for paper and board packaging resulting in water repellency, fat resistance, adapted water vapor transmission rate, high gloss and viscosity modification for machine runnability.

Fields of use are e.g. fast food wraps, bread bags, meat and cheese wraps, corrugated board for fruit, vegetables and frozen fish.

MOSH/MOAH free

Concern is rising about mineral oils present in, or migrating through, food packaging. Commonly referred to as MOSH & MOAH (mineral oil saturated hydrocarbons & mineral oil aromatic hydrocarbons), these substances are known to cause health risks. The short chain portion of paraffin, which is a type of MOSH, can be easily absorbed by the human body and can be stored in several organs or in body fat. This can lead to accumulation and ultimately cause damage to the human body. Furthermore, there is always a risk of remaining traces of harmful MOAH compounds in paraffin. For these reasons, it is expected that the specific migration limits for paraffin will become more stringent in the (near) future. As all TopScreen ED grades are based on vegetable oils, they are guaranteed to be free of MOSH and MOAH.

Declaration :**Topchim NV hereby declares that the product TopScreen ED is complying with the following norms, laws and directives:**

- COMMISSION REGULATION (EC) No 1935/2004 of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC.

Materials and articles, including active and intelligent materials and articles, shall be manufactured in compliance with good manufacturing practice so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

- (a) endanger human health; or*
- (b) bring about an unacceptable change in the composition of the food; or*
- (c) bring about a deterioration in the organoleptic characteristics thereof.*

Topchim NV does not intentionally use or add substances in the production of TopScreen ED which are liable to endanger human health or bring about an unacceptable change in the composition of the food or a deterioration in the organoleptic characteristics thereof. However, Topchim NV does not execute organoleptic tests for TopScreen ED or its raw materials.

The requirements in Regulation (EC) n° 1935/2004 shall apply to materials and articles, including active and intelligent food contact materials and articles, which in their finished state:

- (a) are intended to be brought into contact with food; or*
- (b) are already in contact with food and were intended for that purpose; or*
- (c) can reasonably be expected to be brought into contact with food or to transfer their constituents to food under normal or foreseeable conditions of use.*

Therefore, it is the duty of the person/company who places the finished article(s) on the market to verify that the requirements of Regulation (EC) n° 1935/2004 are met.

- COMMISSION REGULATION (EC) No 10/2011 on plastic materials and articles intended to come into contact with food.

Substances used in the production of TopScreen ED are present in the positive list of the COMMISSION REGULATION (EU) No 10/2011 and its subsequent amendments.

SML: Not applicable.

- COMMISSION REGULATION (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.

Topchim NV meets the requirements for this Regulation, which includes "Good manufacturing practice for materials and articles intended to come into contact with food", by using a quality control system with traceability via batch and providing certificates of analysis for TopScreen ED.

- BfR XIV. Polymer Dispersions

Substances used in the production of TopScreen ED are cleared because they are specifically regulated in BfR XIV or present in the positive list of the COMMISSION REGULATION (EU) No 10/2011 and its subsequent amendments.

- BfR XXXVI. Paper and board for food contact

Substances used in the production of TopScreen ED are cleared because they are specifically regulated in BfR XXXVI or by cross-reference with other BfR-recommendations.

- FDA 21 CFR § 176.170. Components of paper and paperboard in contact with aqueous and fatty foods.

Substances used in the production of TopScreen ED are substances generally recognised as being safe (GRAS), or approved by cross-reference with other parts of this chapter, or listed in this part of the regulation.

TopScreen ED may be safely used as component of the uncoated or coated food-contact surface of paper and paperboard intended for use in producing, manufacturing, packaging, processing, preparing, treating, packing, transporting, or holding aqueous and fatty foods.

The person/company, who places the finished article on the market, has to ensure that the food contact surface of the paper or paperboard complies with the extractive limitations prescribed in paragraph (c) of 176.170.

- FDA 21 CFR § 176.180. Components of paper and paperboard in contact with dry food.

Declaration : (continued)

Substances used in the production of TopScreen ED are substances generally recognised as being safe (GRAS), or approved by cross-reference with other parts of this chapter, or listed in this part of the regulation.

TopScreen ED may be safely used as component of the uncoated or coated food-contact surface of paper and paperboard intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding dry food.

- Italian Regulation: Decreto Ministeriale 21/03/1973 - DPR 777/82 (and other modifications).

TopScreen ED meets the requirements to be used as a component of food contact materials.

- NESTLE STANDARDS on materials in contact with food.

TopScreen ED meets the requirements to be used as a component of food contact materials.

Topchim NV declares that the following substances are not intentionally used or added in the production of TopScreen ED:

- Substances of Very High Concern (SVHC) listed by ECHA
- Heavy metals
- Mineral oil saturated hydrocarbons (MOSH) or mineral oil aromatic hydrocarbons (MOAH)
- BPA, Phthalates and Nanoparticles.

Topchim NV does not execute tests for these substances because the presence couldn't be expected under normal conditions.

TopScreen ED is suitable to come into contact with food (fat, dry, wet) at room temperature or refrigerated.

TopScreen ED contains 100% raw material from renewable sources.

This declaration replaces all previous ones relating to this subject.

Eric Jönsson
CEO

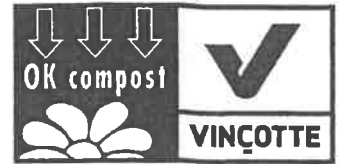
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CERTIFICATE FOR AWARDING AND USE OF THE 'OK COMPOST' CONFORMITY MARK

No. O 14-1441-B

(Cancels and replaces the certificate N° O 14-1441-A)

Issued by AIB-VINÇOTTE International

For the product(s) described hereafter :

Product Domain :	Compostable Products
Product Group :	Components & constituents
Product Family :	Ink, Colorant, Adhesive & Additives
Product Type :	Coating
Trade mark :	TopScreen ED TopScreen Ultra
Product description / Particularities :	Colour: transparent Maximum thickness/grammage: / (the coating needs to be retested for disintegration within the final product)

© Vincotte

Conformity examination applied for by :

**Topchim NV
 Nijverheidsstraat 98
 B-2160 Wommelgem
 Belgium**

Criteria for certification :

- AVI Test Program with reference OK 1 edition E
- Including EN 13432 (09-2000) : « Packaging - Requirements for packaging recoverable through composting and biodegradation – Test scheme and evaluation criteria for the final acceptance of packaging »

Validity of the certificate :

From 20 April 2016 till 23 October 2019

Conclusions of the examination :

The products comply with the above mentioned certification criteria, as confirmed by the test report of AVI no 09 / 60484963 / 604183p.

Applicable certification system :

Type examination followed by supervision through verification tests on samples from the distributor's stocks or of the market.
 The conformity of the product is guaranteed by the procedures for awarding and use of the 'OK compost' conformity mark. This only applies for specimen bearing the 'OK compost' mark.

This certificate is issued in English, Spanish, Italian, German and French.

Brussels, 20 April 2016

P. MICHIELS
 Contract Manager

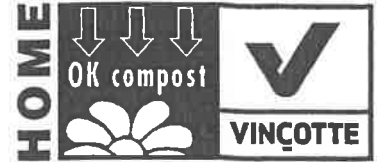
For the Certification Committee
Ph. DEWOLFS
 President of the Committee

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CERTIFICATE FOR AWARDING AND USE OF THE 'OK COMPOST HOME' CONFORMITY MARK

No. O 14-1442-B

(Cancels and replaces the certificate N° O 14-1442-A)

Issued by AIB-VINÇOTTE International

For the product(s) described hereafter :

Product Domain :	Home Compostable Products
Product Group :	Components & constituents
Product Family :	Ink, Colorant, Adhesive & Additives
Product Type :	Coating
Trade mark :	TopScreen ED TopScreen Ultra

Product description / Particularities :
Colour: transparent
Maximum thickness/grammage: / (the coating needs to be retested for disintegration within the final product)

Conformity examination applied for by :

Topchim NV
Nijverheidsstraat 98
B-2160 Wommelgem
Belgium

Criteria for certification :

- AVI Test Program with reference OK 2 edition D "Home compostability of products"

Validity of the certificate :

From 20 April 2016 till 23 October 2019

Conclusions of the examination :

The products comply with the above mentioned certification criteria, as confirmed by the test report of AVI no 09 / 60484963 / 604183p.

Applicable certification system :

Type examination followed by supervision through verification tests on samples from the distributor's stocks or of the market.
The conformity of the product is guaranteed by the procedures for awarding and use of the 'OK compost HOME' conformity mark. This only applies for specimen bearing the 'OK compost HOME' mark.

This certificate is issued in English, Spanish, German, Italian and French.

Brussels, 20 April 2016

P. MICHIELS
Contract Manager

For the Certification Committee
Ph. DEWOLFS
President of the Committee