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BIM BARRIER™
BIM OILGUARD™

BIM Dualguard Concept

- a new multifunctional two-component technology that is plastic- and PFAS free

This new technological innovation significantly improves oil/grease resistance of fibrous paper- and board packaging products by combining wet-end treatment, BIM Oilguard™ with barrier coatings, BIM Barrier™

BIM INTERNAL BARRIER is a wet-end additive that increase oil resistance by minimising oil wicking in the paper - BIM Oilguard™.

BIM SURFACE BARRIER is applied on the surface of paper- or board in order to add functions like oil and grease resistance, moist and water resistance – BIM Barriers™.

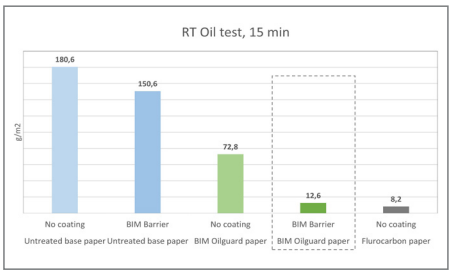
BIM DUALGUARD is especially advantageous for packaging types where it is hard to achieve an even coating, such as 3D-shaped products and low-weight surfaces.

Customer value

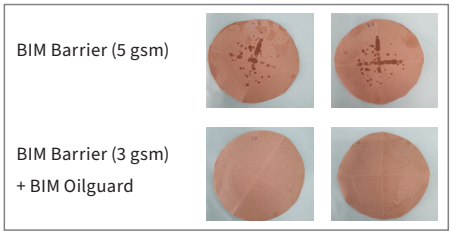
There is much to be gained by using the BIM Dualguard concept:

- Superior oil- and grease resistance
- Protects against oil penetration through film/surface coating defects and edge wicking
- Enables low-weight barrier coatings
- Additional barrier properties, e.g. moist (WVTR), water and oxygen (OTR) resistance.
- Re-pulpable and recyclable
- Food contact approved BfR XXXVI, FDA 176.170
- Compostability can be achieved

Case study



1) Test of 2 - 3 gsm BIM Barrier™ coating on BIM Oilguard™ treated paper, 190 gsm.



2) Hot Oil Cobb test - Coating defects and crease (backside paper after performed test).

Technical Profile

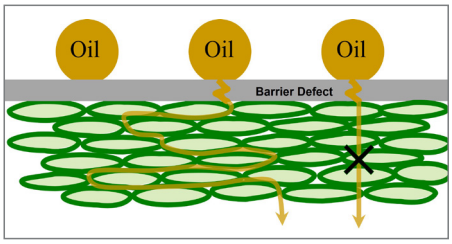
BIM Oilguard™ is:

- Water based micro-dispersions
- One component cationic system
- Applied in the wet end and compatible with existing chemical treatments.

BIM Barrier™ is:

- Water based micro-dispersions
- Applied on the surface by spray coating or suitable application technology
- Drying can be achieved via Infrared or hot air ovens.

Mode of action



The proposed oil barrier mechanism of the BIM Dualguard concept shows a cross section of fibre product with BIM Oilguard™ in the fibre matrix and BIM Barrier™ coated on the surface.

BIM application specialists provide close support and consultancy for machine setup and optimisation.

Full service and support package:

- Oil and grease evaluation methods
- Pre-study lab evaluation
- BIM Repulpability & Recyclability test
- BIM Compostability test
- Application support
- Optimisation tools & chemistry

BIM