No-Tox® ANTIFOG COATING

(FLEXOGRAPHIC/GRAVURE)
HEAT-SEALABLE

NT19AHS
(12/09)

Colorcon's solvent-based Antifog Coating is formulated from ingredients complying with FDA's direct food contact regulations in Title 21 of the US Code of Federal Regulations (21 CFR). Films made by printing or coating this product are thus suitable to directly contact food products, particularly when on the inside surface of polyethylene (PE) or polyolefin-laminated produce packaging. This coating also has Kosher status.

Application Suggestions: The coating is supplied at a press ready viscosity. Recommended application method is rotogravure at application viscosities between 15-18 seconds Zahn Cup #2. Target application weight should be about 1.0 lb/ ream wet or 0.1 lb/ ream dry.

Viscosity reduction can be achieved by adding the single solvent used in this coating, Isopropyl Alcohol.

Specifications:

Viscosity:	16 +/- 2 seconds @ 22°C, Zahn Cup #2
Solids:	10.0% +/- 2.0

Laboratory Tests: This coating was applied in the laboratory using a K-Coater equipped with #3 Meyer Rod to untreated PE film. The coating applied was air dried using a conventional hot air dryer to remove residual solvents.

The following tests were performed to evaluate the antifog properties:

"Hot-Fog Test" The antifog-coated PE film was put face down over a hot cup of water (temperature of 80°C) for 15 seconds.

Results: <u>No fog formed on the film.</u>
(Without the antifog coating, fog is evident immediately.)

"Cold-Fog Test" The antifog-coated film is put face down over a cold cup of water (70% filled) and left overnight in a refrigerator (7°C).

Results: <u>No fog formed on the film.</u>
(Without the antifog coating, fog and water droplets form after 15 minutes.)

PE Film Sealability: PE film coated with NT19AHS coating seals at 300°F, 0.5-1.5 sec, 30-60 psi. (F/F)