

OBA for Paper Industry SUNWHITE BUP

Fluorescent Whitening Agent versatile products for Wet-End, Size Press, and Coating.

PHYSICAL PROPERTIES

Chemical Constitution: Stilbene derivative
Supply Form: Yellowish fine powder/flake
Ionic Character: Anionic
Affinity: Medium
Shade: Bluish, virtually neutral white
Validation: 12 Months

SUITABLE AREAS

Wet-End
Size Press
Coating
pH: 6-12

METHODS

Fluorescent Whitening (WET END)

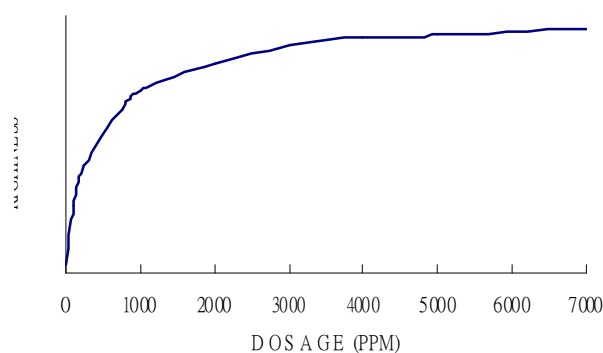
SUNWHITE BUP can be added to the pulper or mixing chest provided it is thoroughly mixed with the furnish.

Care must be taken not to add the product in close proximity to alum or cationic auxiliaries.

Required Amount:

SUNWHITE BUP 4000PPM based on bone dry cellulose.

SLOPE : (1) pH =8 (2)TAPPI WHITENESS



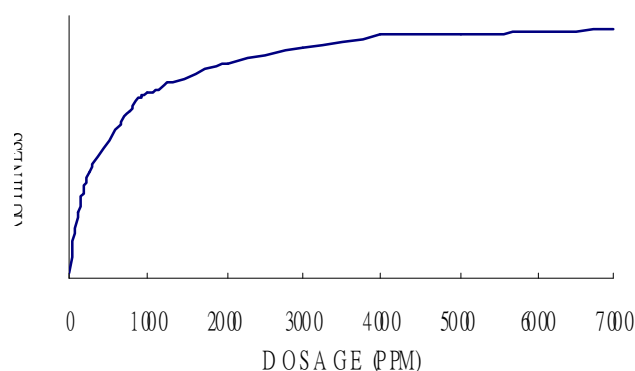
Fluorescent Whitening (SIZE PRESS)

SUNWHITE BUP promotes uniform fluorescent whitening with the conventional starch qualities used at the size press. It can be used in combination with CMC, PVA and anionic or weakly cationic synthetic sizing additives.

Required Amount:

SUNWHITE BUP 4000PPM in the size press liquor. Combining fluorescent whitening of paper both in the furnish and at the size press usually ensures greater cost effectiveness.

SLOPE: (1) pH =8 (2)TAPPI WHITENESS



Fluorescent Whitening (SURFACE COATING)

FWAs of the diamino stilbene tetrasulphonic acid derivative class do not have adequate affinity for coating pigments and synthetic latices based on copolymers of acrylic acid ester and butadiene styrene. To achieve the best effects with FWAs, co-binders are essential as carriers.

Carriers suitable for SUNWHITE BUP are PVA, CMC, starch and synthetic co-binders (In descending order of effectiveness).

For reasons of rheology and printability, it is not always possible in production to use the amount of cobinder that promotes the best brightening effects.

To a very limited degree, crosslinking agents based on melamine and urea formaldehyde are also effective as carriers for FWAs.

SUNWHITE BUP are of limited suitability in combination with casein and protein as co-binders.

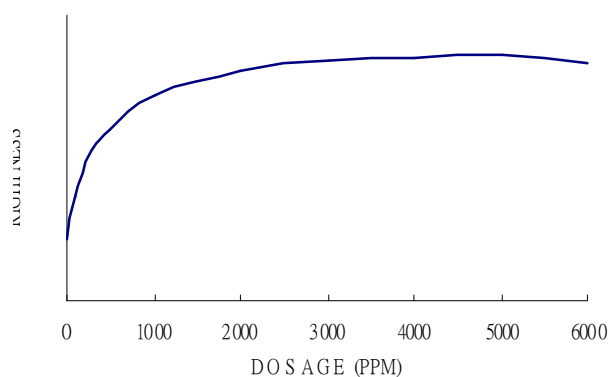
SUNWHITE BUP can be used at pH 7-11 and do not affect the flow properties of the various coating compounds.

Required Amount:

SUNWHITE BUP 400PPM based on the coating pigment.

Fluorescent whitening agents (FWAs) are used today in the production of almost all undyed qualities of paper, because they add extra whiteness. This property of FWAs stems from their ability to convert invisible ultraviolet light into visible light with a bluish cast.

SLOPE: (1) pH =9.2 (2) TAPPI WHITENESS



REMARKS:

The information given in this technical data sheet corresponds to the experience so far gained in plants and laboratories and is without guarantee.

PACKAGING

SUNWHITE BUP (powder) is available for 20 kg carton packing or 500 kg super bag.