SUN WHITE CHEMICALS

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OBTEX SI LIQUID

Product Details:

OBTEX SI LIQUID:

OBTEX SI is a fluorescent brightener which yields outstanding white effects with a bluish shade on celluloses materials, especially paper and pulp.

CHARACTERISTICS:

- Brilliant white effects with bluish shade.
- Versatile in application and can be applied at stages in paper making.
- Applicable in a wide range of pH.
- Good affinity and excellent white effects for polyvinyl alcohol (= PVA) and oxidized starch.
- Outstanding compatibility with fillers, white pigments, binders and latexes for the paper making.
- Very stable to both acidic and neutral sizing agents.
- The whitening effect is hardly affected by the surface pH of the coating base-paper.
- Very good leveling capacity.
- Good stability to peroxides, reducing agents and resin finishing agents. Therefore, it can be combined with these chemicals.

PROPERTIES:

Chemical constitution:	:	Derivative of 4,4'- Diaminostilbene-2,2'- disulphonic acid
Appearance:	:	Pale yellowish liquid
Ionic Character:	:	Anionic
Solubility:	:	Soluble in water all proportion.
pH of 1 % aq. solution	:	Weak alkaline

STABILITY:

Applicable pH range	:	3.5-11.0
Sizing agents		
• Acidic	:	Very good
• Neutral	:	Very good
• Hydrogen peroxide	:	Very good
• Reducing agents	:	Very good
• Resins and resin catalysts	:	Good
• Hard water	:	Good
• Storage	:	Very good (The dilute solutions must not be exposed to direct light.)

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COMPATIBILITY OR AFFINITY

Binders:

- Starch : Good
- Casein : Moderate
- PVA : Good
- Latex : Good
- Resin : Good

Fillers: -

- Clay : Moderate
- Talo : Moderate
- Calcium Carbonate : Moderate

APPLICATION

1) Brightening method for pulp (Beater dyeing method)

A) Un-sized paper

OBTEX SI : 0.1 - 1.5 % (o.w. pulp)
Pulp ratio (N : L) : 1 : 3
Pulp concentration: -
a) in chest : 3.3 % (weight)
b) in flow box : 0.5 % (weight)
Beating degree : 400
Thickness of paper : 150 g/m2

B) Sized paper

- Sized paper can be produced similarly by adding sizing agent and aluminum sulfate properly to the said recipe.

2) Addition to coating color (Surface coating method)

A) PVA and calcium carbonate composition
OBTEX SI 0.1 - 3.0 % (o.w. pigment)
Pigment

- Clay 80 parts
- Calcium Carbonate 20 parts
- Sodium pyrophosphate 0.4 parts
- PVA 117 6.0 parts
- Latex (SBR 0691 A) 8.0 parts
- Ammonia (25 % aq. soln.) 1.0 parts
- Water *) x parts

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*) The coating mixture is diluted to a solid matter content (= color concentration) of 45 % by weight with water.

- Wire rod — No. 14
- Coating weight — 20 g/m2 (Wood free paper, one side)
- Coating temperature — Room temperature
- Drying condition — 2 min. at 90 C.

Oxidized starch or casein composition:

	Starch Comp.	Casein Comp
Clay	100 Parts	100 Parts
Sodium Pyrophosphate	0.15 Parts	0.15 Parts
Oxidized starch	6.0 Parts	--
Casein	--	7.0 Parts
Latex (JSR 0698)	12.0 Parts	--
Latex (JSR 0691 A)	--	12.0 Parts.
Resin (Sumirez resin 613) (Melamine formaldehyde type)	0.6 Parts	--
OBTEX SI	1.0 Parts	1.0 Parts
Water *)	X Parts	X Parts
Color Concentration	58.0 % (Weight)	50.0 % (Weight)

*) Each coating mixtures are diluted with water, to a solid matter content (= color concentration) of 8.0 % and 50.0% by weight respectively.

Coating condition — Same as in 2-A)

3) Size press method

- **OBTEX SI** — 0.1 – 1.5 Parts
- Oxidized starch : — 3.5 Parts
- PVA 217 E — 1.5 Parts
- Water — 100 Parts
- Wire rod — No. 9
- Coating weight — 1.0 g/m2 (Wood free paper, one side)
- Coating temperature — Room temperature.
- Drying condition — 30 – 60 sec. At 60 – 65°C.

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(WITHOUT WARRANTY)

The information's given in this literature are based on the present state of our knowledge.

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