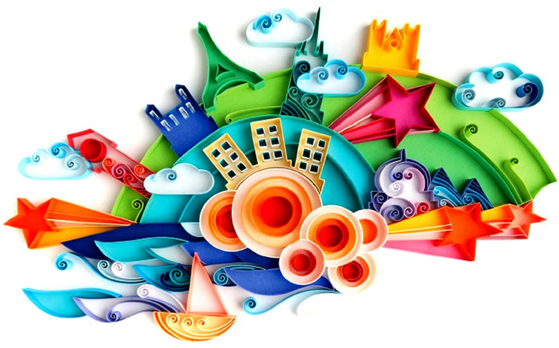
WE MAKE THE PALETTE FOR PAPER



BIPL BHAVI International Private limited

Government Recognized Export House | Formerly Bhavi International Limited

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INTERNATIONAL PRIVATE LIMITED
A Government of India Recognized Export House

209, Mewad Building, Patanwala Ind. Complex, L.B.S. Marg, opp. Shreyas Cinema, Ghatkopar (W), Mumbai-400086, India
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Insolubilizer & Printability-Improving agent for Coating Color
NTWET-50

DESCRIPTION

There are many chemically different types of insolubilizers, but they all have the same function - to add **Water Resistance.**

Water resistance is particularly important in offset printing, but also for wallpaper and in storage of board packages. In double-coated boards, crosslinkers are used in the pre-coating to impart water resistance against the topcoat. The water resistance can be measured as wet rub and wet pick or seen as less pick, print mottle, or binder migration.

The water sensitivity of paper and board coating originates from the fact that water-soluble binders tend to lose their binding power in contact with water and dissolve. This water sensitivity of binders can be described as the amount of O-atoms in the molecule (in hydroxyl and carboxyl groups). The water sensitivity can be decreased by crosslinking the soluble binders together with insolubilizers or by building an insoluble net around the binders. .

NTWET is Insolubilizer for Binder in Coating Color. This is type of Polyamide-Polyurea Resin.

NTWET causes ionization of coating color to delay through hydrogen bonding with water molecules and enhances liquidity.

After drying is started and water is removed, rapid ionic bonding between cationic ion and anionic ion makes floating point lower and binder migration is restricted. Therefore, coating layer becomes thicken and multi-porous. Mottling and blistering resistance are improved and printing effect is maximized.

-CH2OH	+	- COOH	--(- H^+, H_2O)	→	-CH2-O-CO-
<NTWET>		<LATEX>			<Hydrophobic>

PROPERTIES

- Solid Contents (%) : 50± 1%
- pH (at 20°C) : 7.5 ± 1
- Viscosity (cps, at 25°C) : < 1000 cps
- Appearance : Light Yellow Clear Liquid
- Solubility : Easily Soluble in WATER
- Stability : Six Month

APPLICATION

- Input Value : Recommend to Using Dosage 0.3 – 1.0% on Pigment ; depends on users condition.

STORAGES

- Containers should be kept tightly closed when not in use to avoid evaporation losses.
- Avoid direct rays of light & high temperatures
- Keeping Covered
- Storage indoors at 5 – 30°C
- Sediments are possible

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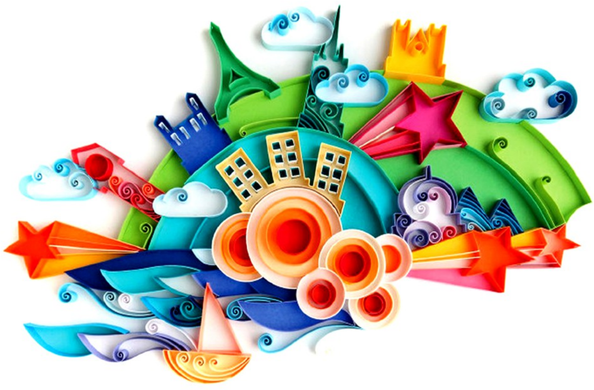

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Insolubilizer & Printability-Improving agent for Coating Color
NTWET-60

DESCRIPTION

There are many chemically different types of insolubilizers, but they all have the same function - to add **Water Resistance.**

Water resistance is particularly important in offset printing, but also for wallpaper and in storage of board packages. In double-coated boards, crosslinkers are used in the pre-coating to impart water resistance against the topcoat. The water resistance can be measured as wet rub and wet pick or seen as less pick, print mottle, or binder migration.

The water sensitivity of paper and board coating originates from the fact that water-soluble binders tend to lose their binding power in contact with water and dissolve. This water sensitivity of binders can be described as the amount of O-atoms in the molecule (in hydroxyl and carboxyl groups). The water sensitivity can be decreased by crosslinking the soluble binders together with insolubilizers or by building an insoluble net around the binders. .

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NTWET causes ionization of coating color to delay through hydrogen bonding with water molecules and enhances liquidity.

After drying is started and water is removed, rapid ionic bonding between cationic ion and anionic ion makes floating point lower and binder migration is restricted. Therefore, coating layer becomes thicken and multi-porous. Mottling and blistering resistance are improved and printing effect is maximized.

-CH2OH	+	- COOH	--(- H^+, H_2O)	→	-CH2-O-CO-
<NTWET>		<LATEX>			<Hydrophobic>

PROPERTIES

- Solid Contents (%) : 60 ± 1 %
- pH (at 20°C) : 7.0 ± 1
- Viscosity (cps, at 25°C) : < 500
- Appearance : Light Yellow Clear Liquid
- Solubility : Easily Soluble in WATER
- Stability : Six Month

STORAGES

- Containers should be kept tightly closed when not in use to avoid evaporation losses.
- Avoid direct rays of light & high temperatures
- Keeping Covered
- Storage indoors at 5 – 30°C
- Sediments are possible