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## **TECHNICAL DATA SHEET**

### **BILTREAT ISA 063**

#### **Description:**

BILTREAT ISA 063 is a clear alkaline solution of stabilized ammonium zirconium carbonate, containing anionic hydroxylated zirconium polymers. It is an effective cross linker and insolubilizer, It aggressively react with most functional group of latex as well as natural origin polymers that are used as machine curing cross linking agents for all types of paper & board applications.

#### **Advantages:**

- Non Formaldehyde compound.
- Reacts aggressively with latex and natural co-binders.
- Effective in alkaline and mildly acidic pH conditions.
- Cures upon moisture removal.
- Cure begins at Coater Nip; advanced cure off machine.
- Helpful tool for problems associated with water based ink.
- Suitable for Food grade paper.

#### **Advantages in Surface Size Application:**

- Improved wet strength of the surface of coated and size press treated paper and board.
- Reduced linting and dusting from back coat or surface size.
- Reduced variations in surface size receptivity to coating.
- Reduced on machine pick from re-wetted back coat.

#### **Physical Properties:**

Physical Appearance	: Clear Liquid
pH	: 9 - 10
Ionic charge	: Anionic
Solubility	: Miscible with water in all proportions
Specific Gravity	: 1.36
Freeze stability	: Keep away from freezing
Compatibility with Anionic / Non ionic product:	Good
Compatibility with Cationic product	: Not Compatible

#### **Caution:**

- Compatibility must be first checked in lab before use.

#### **Application & Dosages:**

- Typical addition level of BILTREAT ISA 063 recommended as under:  
Sizing : 3-5% wet basis BILTREAT ISA 063 on starch solids  
Coating: 5-7 wet basis BILTREAT ISA 063 on the total dry binder content.
- Dosages are depending upon the degree of property enhancement required.
- Since the pH of the coating slurry before the addition of BILTREAT ISA 063 should be higher than 7, It should be always added as the last component in the coating mix, after adjusting the pH of the coating 8-9.

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### **Storage & Handling:**

- BILTREAT ISA 063 is active cross linkers. It is therefore strongly advised that the bulk storage system, tanks and lines be thoroughly and professionally cleaned prior to the first delivery in common with good chemical handling practices and procedures.
- BILTREAT ISA 063 contains ammonia solution; hence all copper containing alloys should be eliminated from any storage or delivery system. Mild steel is not recommended. For Storage, Stainless Steel, Polyethylene, Glass reinforced Plastic or Propylene is also suitable.
- BILTREAT ISA 063 should be store in tightly sealed drum. It is not advisable to leave open the used drums of BILTREAT ISA 063. The air within the containers can slowly react with the product leaving solid sediments at the bottom.

### **Shelf Life:**

- 6 months from date of manufacturing in air tight sealed containers stored away from the direct heat and sunlight.

### **Packing:**

- 60 kg / 240 kg HDPE drums.

### **Disclaimer:**

The suggestion & data in this publication is currently believed to be accurate. We do not guarantee its accuracy as the conditions & methods of the use of our products are beyond our control. Purchasers should always make their own determination of its suitability and completeness for a particular use, for the protection of the environment & for the health and safety of employees.

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