

INDOSIZE A45

Anionic Rosin Dispersion

DESCRIPTION:

INDOSIZE A45 is a high efficiency rosin emulsion size with a high free rosin content, processed from a special modification of fortified rosin.

INDOSIZE A45 is specifically designed for acid papermaking pH of 4.6 to 5.2. However, it can be used up to a pH of 6.0 through the use of inorganic and organic coagulant as fixing agent or charge neutralizer in addition to alum.

TYPICAL PROPERTIES:

Appearance	off- white emulsion
Total solids, %	45.0±0.5
Density	1.01-1.03
Ionic Character	Anionic
pH	6.8 - 7.2
Dilution	Infinite
Viscosity, cps @ 25°C, 100 rpm Spindle #1	25 - 50
Shelf life @ 25-30°C	6 Months

APPLICATION:

INDOSIZE A45 is usually added to the thick stock just before the fan pump. It is a highly effective sizing agent at dosages of 0.30% - 0.70% on dry input as delivered emulsion. Actual dosage depends on paper grades produced, grades containing mechanical pulps or made at elevated water temperatures may lead to higher consumptions.

INDOSIZE A45 needs from 5-10 kpt of alum as mordant when applied at headbox pH of 4.6-5.2. When applied at pH above 5.5 to 6.0, inorganic or organic coagulants or blends of both, must be used as fixing agent in addition to alum for optimum sizing effect.

INDOSIZE A45 can be dosed as delivered via a metering pump. Use of on-line dilution is preferable but not required.

STORAGE AND HANDLING:

INDOSIZE A45 is a fairly stable emulsion, however the usual care for storage of emulsion sizes must be taken as follows:

1. Maximum temperature range for storage is 5-30°C.
2. Storage tanks must be covered/closed to prevent volatilization of water and film formation.
3. Filling pipes should reach the bottom to prevent foaming.
4. Periodic cleaning of the storage tank and annual disinfection using dilute formaldehyde solution is advised to prevent infection by bacteria and molds.

HEALTH AND SAFETY:

There are no known toxic effects from contact with or handling of **INDOSIZE A45** emulsion. However in line with good chemical practice it is recommended that personal protective appliances, at least gloves and goggles, be worn when handling this material. **INDOSIZE A45** components are approved for use in paper and board products in contact with foodstuffs.

Emergency and First-Aid Procedure.
Eyes; flash with large amount of water for at least 15 minutes. **Skin;** Wash with soap and hot water. **Inhalation:** Remove to fresh air. **Ingestion:** Do not induce vomiting. Give large amount of water.

PACKAGING:

INDOSIZE A45 is supplied in plastic drums of 200 kgs. Net or in a returnable **Pro-Pack tote bin** of 1,000 kgs. net.

Office / factory :

Jl. Raya Sumput No. 17 Driyorejo – Gresik
 Jawa Timur – Indonesia

Telp. : +61 32 7507156 (Hunting) Fax. : +62 31 7507400

E-mail : info@indopicri.net



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