

## Z 3000 ACP

**Specially designed synthetic polymer resin to improve adhesion and cohesion for sized spun yarn, for both cotton and polyester blends.**

**Z 3000 ACP** is fully compatible with starch and improves the properties of starch for superior weaving.

**Z 3000 ACP** is completely water dispersible. It improves flexibility, abrasion resistance, smoothness of the yarn and **gain in strength**.

Features	Benefits
Block polymeric Structure	Improves abrasion resistance and the cohesive index of the sized yarn, which are important parameters for higher weaving efficiency.
Low Viscosity	Starch recipe gives the sizer Lowest Viscosity with highest starch/polymer concentration improving sizing of heavy reed /pick construction sorts.
Good Compatibility	Gives very smooth film due to its compatibility with starch.
Reinforcing Nature	The higher film strength and abrasion resistance of the starch film will result in lower droppings of size film on the loom during weaving.

### Specifications:

Solid content	:	25 ± 1.5%
Ph	:	6.5 – 7.5
Viscosity	:	5 – 10 CP

## Application:

The best performance is seen with 50kg starch and 4 to 5 kg of **Z 3000 ACP**. At this concentration, **Z 3000 ACP** gives best abrasion resistance and strength of the starch film. To improve the strength and abrasion resistance further, add higher concentration of **Z 3000 ACP** along with **RAN-1000 / PVA** or any other polymeric binder for higher speed (650 – 900 rpm) Airjet looms.

## Procedure:

Take desired level of water and add starch while stirring. Add **Z 3000 ACP** along with other ingredients and transfer to the pressure cooker. Heat it till the starch is completely cooked and degelatinized. Add softener to the above mixture and transfer to the sizing box.

## Complimentary products:

- **Zytoplast & Zytoplast TT**: Modified starch for spun sizing
- **Ran 1000**: Acrylic based binder for spun yarn sizing
- **R Cryl**: Acrylic based binder for spun yarn sizing
- **R Soft 44**: Softener for spun yarn sizing
- **R Soft 55**: Softener for spun yarn sizing

## Storage:

- Store carboy in shade at room temperature.
- Minimum shelf life of **Z 3000 ACP** is six months.

**Disclaimer:** *The information in this leaflet is given in good faith but without warranty. We recommend that before using our products, the customer should make his own tests to determine the suitability of the products for his own purpose under his operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.*

# **MATERIAL SAFETY DATA SHEET**

**1.Trade Name:** **Z-3000-ACP**

Company:  
ZYDEX INDUSTRIES  
25A, GANDHI OIL MILL COMPOUND  
GORWA  
VADODARA-390016, INDIA

Emergency information:  
ZYDEX INDUSTRIES  
TELEPHONE NO.+91 265 2280120, 2280865 FAX NO.91 265 2280872

**2.Composition/information on ingredients:**

**Chemical nature:** Formulated-Polmer Resin

**3.Possible hazards**

**Critical hazards to man and the environment:** Non-hazardous

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**4.First aid measures**

<b>General advice:</b>	Remove contaminated clothing
<b>If inhaled:</b>	Keep patient calm, remove to fresh air
<b>On skin contact:</b>	Wash thoroughly with soap and water
<b>On contact with eyes:</b>	Wash affected eyes for at least 15 minutes under running water with eyelids help open, consult an eye specialist.
<b>On ingestion:</b>	Rinse mouth and then drink plenty of water

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**5.Fire fighting measures**

**Suitable extinguishing media:** Water spray, dry extinguishing media, foam, carbon di-oxide (CO2) Non-flammable and hence no fire hazard.

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## 6. Accidental release measures

<b>Personal precautions:</b>	No special measures necessary
<b>Environmental precautions:</b>	Do not let product enter drains
<b>Methods for clearing up:</b>	Contain with absorbent material and dispose. Clean with water.

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## 7. Handling and storage

<b>Handling:</b>	Ensure thorough ventilation of stores and work areas
<b>Protection against fire &amp; explosion:</b>	No special measures necessary
<b>Storage:</b>	Keep tightly closed in a dry and cool place.

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## 8. Exposure controls and personal protection **Personal protective equipment**

<b>Respiratory protection:</b>	Avoid breathing vapor
<b>Hand protection:</b>	Protective gloves
<b>Eye protection:</b>	Goggles
<b>General safety and hygiene measures:</b>	The usual precautions for the handling of chemicals must be observed.

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## 9. Physical and chemical properties

<b>Form:</b>	Liquid Pourable Dispersion
<b>Colour:</b>	Translucent Yellow
<b>Odour:</b>	Light odour
<b>Flash point:</b>	>100 °C
<b>Ignition temperature:</b>	N/A
<b>Explosion hazard:</b>	No explosion hazard
<b>Solubility in water:</b>	Very thick solution at 2% conc.
<b>Vapour pressure:</b>	N/A
<b>pH value (at 50g/l 30oC):</b>	6.5 – 7
<b>Viscosity:</b>	100– 500 CP

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## 10.Stability and reactivity

**Storage time:** Max. 6 months

**Hazardous reactions:** None, provided product is correctly processed

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## 11.Toxicological information: Non-toxical

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## 12. Ecological information:

### General Notes:

Do not allow material to be released to the environment without proper governmental permits.

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## 13. Disposal consideration:

**Product :** Must be dumped or incinerated in accordance with local regulations

**Contaminated packaging:** Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport Information: Not a hazardous material for transportation.

### DOT regulations

**Hazard class :** Not regulated.

**Land transport ADR/RID (Cross-border)**

**ADR/RID Class :** Not regulated.

**Maritime transport IMDG:**

**IMDG Class :** Not regulated.

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class :** Not regulated.

**Transport/Additional information :** Not dangerous according to the above specifications.

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## 15. Regulations

Product related hazard information:

\*Hazard symbols: Non-hazardous

\*Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water & seek medical advice.

36 Wear suitable protective clothing.

\*National regulations:

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

\*Information about limitation of use:

For use only by technically qualified individuals.

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## 16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of the information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product conformance with this Material Safety Data Sheet, or in combination with any product or process, is the responsibility of the user.

.Department issuing MSDS: Safety and Environmental Department.

.Contact: Ajay I. Ranka

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PS: The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

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