

# CHANG CHUN PETROCHEMICAL CO., LTD.

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## TM-5016

### TYPICAL PROPERTIES

Main Ingredient	<b>VA-VEOVA-Acrylate Copolymer Emulsion</b>
Appearance	Milky White
Surfactant (APE free) stabilized emulsion polymer	
Solids Content *(wt%)	51 ±1
Viscosity*(cP,25 °C,20rpm)	500±100
pH*	4.0 – 6.0
Free Monomer* (%)	0.2 max.
Tg (oC)	16±3
MFFT (°C)	8-10
Particle Size (nm)	200

\*marked item, are the ex-works delivery specification.

All other figures are typical physical properties for reference only.

### INTRODUCTION //

TM-5016 is a vinyl acetate vinyl versatate acrylate emulsion copolymer. Because of its very good adhesive properties, TM-5016 is a raw material which is particularly suitable for the manufacture of adhesives for difficult to adhere substrates such as plastic films in the packaging, foams and paper applications. It is also suitable for floor, wall and ceiling adhesives. After drying it forms a clear, very soft, flexible film with low surface tackiness, exhibits very good adhesive properties on an extremely wide range of plastic materials, and especially polyvinyl chloride (PVC) product. It's highly recommended for modification of systems containing cement and gypsum for floors, walls and ceilings. In combination with appropriate raw materials it can produce highly flexible, water resistant compounds that are highly resistant to saponification, aging, and light exposure. In the general formulations it can be combined with plasticizers, solvents, thickening agents, extenders etc. During processing in the recommended applications the product demonstrates excellent rheology and workability with reduced water demand and extended pot life, improved water retention capability, rapid wetting and high shear stability.

### RECOMMENDED APPLICATIONS //

This multi purpose latex copolymer can be used in a wide range of applications, and is especially recommended for the wall-covering and construction adhesives, general purpose adhesives, wood putties, tile adhesive mortars, gypsum-based compounds (joint compounds, skim coatings, and textures), self-leveling floor compounds and decorative overlayers, interior and exterior gloss or semi-gloss masonry paints. In the cured state of appropriate applications, the product improves adhesive bond strength on a wide variety of different substrates, freeze-thaw cycling resistance, flexibility, tensile strength and abrasion resistance.

### SAFETY & STORAGE //

In general, TM-5016 is considered safe for its intended use. However, since these product contains residual vinyl acetate monomer (less than 0.5%), it is recommended to have adequate ventilation where latex is handled. The usual protective measures apply when handling polymer emulsion such as wearing gloves and goggles. Splashes on the skin or in the eyes should be removed by irrigation with clean water.

The TM-5016 should be stored between 5 and 30°C. Drums of the product should be stored in dry, sheltered area to be used within 6 months. Do not store latex under freezing condition. When containers are open they should be used as soon as possible or be resealed to prevent drying up.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of products is guaranteed under our General Conditions of Sale. Neither CCP nor its agents nor its distributors accept liability for damages arising from the use of our product or our recommendation. It is our customers' responsibility to avoid infringement of the rights of third parties.