ABWAB AL JAZEERA

# Technical information of polytex - 418

Emulsion acrylic- styrene copolymer

## Product Properties

| Characteristics | Range/ Value | Unit | Ref. Standard |
|---|---|---|---|
| Solids content | 50±1 | % | ISO 1625 |
| PH | 8 ± 0.5 | ---- | ISO 976 |
| Viscosity,Brookfield | 8000-10000 | CP | ISO 2555 |
| Density | 1.01 | g/cm3 | ISO 2811 |
| Minimum Film Formation Temperature | 0 | °C | ASTM D2354 |

| | |
|---|---|
| Dispersion type | Anionic |
| Plasticizer | Without plasticizer |
| Pigment Wetting | Very good |
| Flexibility | Very good |

## Applications

Due to excellent wetting properties along with suitable elasticity behavior, Polytex- 418 is widely used as a base material for production of different types of coatings including roof insulation, concrete insulation, construction mortar, tile adhesives, flexible and waterproof coatings on different surfaces such as plaster, concrete and cement. The final dried film will be bright, flexible and crack-free and has great resistance against water.

## Compatibility

**Polymers:** Polytex-418 is miscible with a wide range of nonionic and anionic aqueous polymers. It should be noted that most of the time dried film of the polymer blend has a cloudy appearance.

**Thickeners:** Polytex-418 is compatible with Acrylic Acid-based, Polyvinyl alcohol ,Cellulose ethers and Poly urethane thickeners.

**HP 800** : polytex- 317 is compatible with HP- 800 additive. HP-800, formulated and manufactured in PolymerIran company, is a core- shell latex. Uniform particle size distribution of this additive results in uniform leveling and flow properties while the hard styrene shell improves the mechanical properties.

**Plasticizers:** Polytex-418 is compatible with Glycol ethers, Phethalate ester and Benzoate types.

**Coalescence Agents:** Polytex-418 is compatible with different types of Coalescence agents, such as Texanol, 402 solvent, Diethylene glycol monobutyl ether.

**Fillers**: Polytex 418 is compatible with amorphous and crystalline carbonate, silica, clay, lithopone, talk, etc. Addition of Sodium polyphosphate will improve pigment wetting properties of the resin.

## Explanations

While using Polytex-418, according to the usage, the film formation temperature can be decreased by coalescence agents and by using thickeners reach to the suitable viscosity. Using anti foam to the level of 0.1 to 0.3% when using this is necessary and in order to prevent of microorganisms attacks suitable preserver should be used. Using of glycols leads to resistance against freezing increases but altogether the film formation temperature will not decrease noticeably.

## Storage

12 month from production date under standard conditions and away from direct sunlight and heat.