



## Technical information of polytex - 800

Core- shell Emulsion acrylic- styrene resin

### Product Properties

| Characteristics                          | Range/<br>Value | Unit              | Ref.<br>Standard |
|--|-----------------|-------------------|------------------|
| Solids content                           | 50±1            | %                 | ISO 1625         |
| PH                                       | 8 ± 0.5         | ----              | ISO 976          |
| Viscosity,Brookfield                     | ≤ 2000          | CP                | ISO 2555         |
| Density                                  | 1.01            | g/cm <sup>3</sup> | ISO 2811         |
| Minimum Film<br>Formation<br>Temperature | 23              | °C                | ASTM<br>D2354    |

|                 |           |
|-----------------|-----------|
| Dispersion type | Anionic   |
| Plasticizer     | None      |
| Pigment Wetting | Very good |
| Flexibility     | Very good |

### Applications

Due to its excellent wetting properties and mechanical properties such as suitable combination of flexibility and hardness, Polytex- 800 is widely used for production of interior/ exterior paints and construction mortar. The final dried film provides great adhesion on different types of surfaces such as plaster, cement and concrete.

### Compatibility

**Polymers:** Polytex-800 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-800 is compatible with Acrylic Acid-based, Polyvinyl alcohol ,Cellulose ethers and Poly urethane thickeners.

**HP 800 :** polytex- 800 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-800 is compatible with Glycol ethers, Phethalate ester and Benzoate types.

**Coalescence Agents:** Polytex-800 is compatible with different types of Coalescence agents, such as Texanol, 402 solvent, Diethylene glycol monobutyl ether.

**Fillers:** Polytex- 800 is compatible with amorphous and crystalline carbonate, silica, clay, lithopone, talk, etc. Addition of Sodium polyphosphate will improve pigment wetting properties of the resin.



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### Explanations

While using Polytex-800, 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.

### Safety tips

Material safety datasheets are available from PolymerIran company. While working with chemicals common safety measures must be observed. Skin, eye and mucous membrane irritation in prolonged contact with the acrylic polymer. Workplace should be sufficiently well-ventilated and protective clothes and goggles should be used.

### Notice

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