

## 308A2

### High Elasticity Emulsion

#### Product Description

308A2 High Elasticity Emulsion is formulated for specialized polymer applications requiring superior flexibility and water-whitening resistance, making it ideal for high-performance sealants and protective coatings.

#### Physical Properties\*

| Properties                        | Value                | Unit | Test Method                      |
|-----------------------------------|----------------------|------|----------------------------------|
| Appearance                        | Milky white emulsion | —    | Visual                           |
| Solid Content                     | 53 ± 1               | wt%  | GB/T 20623-2006                  |
| pH                                | 4.5 - 5.5            | —    | GB/T 20623-2006                  |
| Viscosity                         | 2000 - 4000          | CPS  | Brookfield DV-S, 2#, 30rpm, 25°C |
| Glass Transition Temperature (TG) | -29                  | °C   | Calculated Value                 |

Note: \*The properties listed above represent typical results only and should not be construed as product specifications. Please refer to the specific Certificate of Analysis (COA) for official specifications.

#### Performance Testing & Evaluation

1. Water-Whitening Resistance Test

**Test Conditions:** 120µm wet film casting, baked at 60°C for 30 minutes, followed by water immersion/boiling at 90°C for 30 minutes.

**Water-Whitening Resistance Ranking:** 1. M201A | 2. 308A2 | 3. M154 (M154 exhibited the most severe blistering).

2. Wet Adhesion and Wet Strength Test

**Test Conditions:** 120µm wet film casting, baked at 60°C for 30 minutes, followed by water immersion/boiling at 90°C for 30 minutes.

**Wet Adhesion & Wet Strength Ranking:** 1. 308A2 | 2. M201A | 3. M154.

*Result Note: 308A2 shows significantly superior performance compared to M201A and M154.*

3. Sealant Stability Evaluation (Formula 1 - Ratio 1:1)

|              |       |               |               |            |       |                                     |      |
|--------------|-------|---------------|---------------|------------|-------|-------------------------------------|------|
| Raw Material | 308A2 | Liquid Alkali | Wetting Agent | Dispersant | Water | Heavy Calcium Carbonate (1250 mesh) | 1135 |
| Weight (g)   | 1200  | 35            | 12            | 9          | 120   | 1200                                | 70   |

- Viscosity/Consistency Stability:** At room temperature, the consistency of the 308A2 sealant increased by 0.2 (2.27%) after 10 days. Under heat storage at 50°C, the consistency increased by 0.3 (3.41%) over 10 days.
- pH Stability:** The pH value decreased by 0.5 (7.14%) after 10 days under both room temperature and 50°C heat storage conditions.

4. Sealant Stability Evaluation (Formula 2 - Ratio 1:2)

|              |       |               |               |            |          |       |                                    |        |
|--------------|-------|---------------|---------------|------------|----------|-------|------------------------------------|--------|
| Raw Material | 308A2 | Liquid Alkali | Wetting Agent | Dispersant | Paraffin | Water | Heavy Calcium Carbonate (800 mesh) | EP-610 |
| Weight (g)   | 800   | 40            | 8             | 8          | 280      | 400   | 1600                               | 60     |

- **Viscosity/Consistency Stability:** At room temperature, the consistency of the 308A2 sealant remained completely stable, showing zero increase (0%) over 7 days.
- **pH Stability:** The pH value remained completely stable, showing zero decrease (0%) over 7 days at room temperature.

## 5. Sealant Drying Speed & Water Resistance

- **Drying Speed (After 40 hours at room temperature):** 1. 306+199A | 2. 201A | 3. 308A2.
- **Water Resistance (After 3 days of water immersion at room temperature):** 1. 308A2 | 2. 199A | 3. 201AL | 4. M154.

## Storage

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Please store this product in a cool, dry place away from direct sunlight. The storage temperature should be maintained between 5°C and 35°C. Keep the original packaging completely intact.

The shelf life of this product is six months from the date of manufacture. If the product exceeds its shelf life, a performance evaluation is highly recommended before use. Once the packaging is opened, it is recommended to filter the emulsion properly before application and consume it as quickly as possible.

## Disclaimer

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Shandong Sanjia Polymer Material Co., Ltd. strongly recommends that customers handle and use this product safely and rationally in accordance with the detailed information provided in the Material Safety Data Sheet (MSDS). While we believe the recommendations and data contained herein are true and reliable, the contents of this Technical Data Sheet are provided for reference purposes only. We offer no warranties, whether express or implied, regarding product characteristics, applications, quality, safety, product specifications, merchantability, or fitness for a particular purpose.

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