



EVA (Ethylene Vinyl Acetate) Redispersible Powder

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Product Category	<ul style="list-style-type: none"> EVA Redispersible Powder Concrete or Cement Admixtures
Application	<ul style="list-style-type: none"> Tile adhesives Tile adhesive cement Grout Flexible flooring system
Key Function(s)	<ul style="list-style-type: none"> Improve adhesive between tiles and substrate Enhance floor flexibility Adjust workability of cement mixture

EVA redispersible powder is a type of powdered polymer made from **Ethylene-Vinyl Acetate (EVA)** copolymer, which is widely used in the construction chemicals. When mixed with water, this powder rehydrates and redisperses into a stable emulsion, allowing it to be incorporated into various building materials. EVA redispersible powder is commonly used in cement-based products, such as adhesives, mortars, plasters, and tile grouts, to enhance their performance.

Key Features and Benefits:

- Improved Adhesion:** When added to cement-based products, EVA redispersible powder significantly improves adhesion, making it ideal for applications such as tile adhesives, plaster, and flooring systems.
- Flexibility and Durability:** The powder enhances the flexibility and impact resistance of the finished product, which is especially beneficial for flooring, wall coatings, and external applications where materials are subject to stress and movement.
- Water Resistance:** EVA redispersible powder helps improve the water resistance of construction materials, reducing water absorption and preventing damage due to moisture. This feature is particularly useful for exterior applications exposed to harsh weather.
- Workability:** It enhances the workability of cementitious mixtures, making them easier to apply and spread. This is especially beneficial in construction tasks that require smooth finishes, such as plastering and tiling.
- Improved Bonding:** It increases the bonding strength between substrates (e.g., between tiles and surfaces), contributing to a more durable and long-lasting finish.

For more information of product



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Applications:

- **Tile Adhesives:** EVA redispersible powder is commonly added to tile adhesives to improve bonding strength and flexibility, ensuring tiles remain securely attached over time.
- **Cement-based Mortars:** It is added to mortars for bricklaying, plastering, and rendering to improve their flexibility, adhesion, and workability.
- **Flooring Systems:** It can be mixed with cement or self-leveling compounds to enhance the durability, flexibility, and bonding strength of flooring systems.
- **Waterproofing Coatings:** EVA redispersible powder can be used to enhance the water resistance and flexibility of coatings used in areas exposed to moisture.
- **Dry Mix Products:** It is used in various dry-mix products, such as repair mortars, plastering compounds, and joint fillers.

Why is it important?

EVA redispersible powder helps enhance the performance of construction materials without compromising the basic properties of the cement or other base products. By improving adhesion, flexibility, workability, and durability, it helps to extend the lifespan and effectiveness of construction materials, ensuring a better quality finish and fewer maintenance requirements in the long run.

In summary, **EVA redispersible powder** is a highly versatile additive in the construction industry, used to improve the performance characteristics of various cement-based products.

Stellar Unity has provided different grades of EVA redispersible powder with competitive prices. The products can be available in different Tg (glass transition temperature) from minus 10 °C Tg up until 18 °C by varying different ratios of Ethylene and Vinyl Acetate in molecular structure. Lower Tg of EVA redispersible powder will usually form more flexible at room temperature, while higher Tg of EVA redispersible powder will provide higher strength and rigidity.

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