

Technical Data Sheet

ACCURATE™ 9055E Redispersible Polymer Powder

Characteristics

9055E is a powdered acrylic redispersible polymer powder, mainly produced by spray-drying an emulsion synthesized through copolymerization of acrylates and silane compounds. It features excellent hydrophobic performance, film-forming ability, and weather resistance.

Technical Data

Property	Test Method	Unit	Value
Solid content	-	wt.%	99
Residue on ignition	-	wt.%	12±2
Bulk density	-	g/L	450-550
Appearance	-	—	White powder
Stabilizing system	-	—	Polyvinyl alcohol
Fineness (residue on 80-mesh sieve)	-	wt.%	≤10
Minimum film-forming temperature	-	°C	0
Glass transition temperature	-	°C	-15

* The above data are for reference only.

Performance

9055E is particularly suitable for use in combination with other inorganic binders such as cement, lime, and gypsum, for the manufacture of flexible construction adhesives, wall and floor skim coats, and repair mortars. It can also be used independently as a binder in polymer bonding systems.

Application Scope

It provides the following advantages:

- Improves adhesion and internal cohesion;
- Enhances flexibility and impact resistance;
- Reduces water absorption of mortars and improves impermeability;
- Improves resistance to water immersion, heat, and freeze-thaw cycles;
- Provides excellent surface lotus-leaf effect and anti-soiling performance.

Recommended applications

- Thermal insulation putty systems;
- Cement-based decorative mortars;
- Cement-based grouts;
- Polymer waterproof mortars;
- Waterproof slurries.

Processing and Use in Dry-Mix Mortars

For the production of powdered dry-mix mortar products, whether adhesives or skim coats, 9055E is mixed with other dry powder materials in suitable mixing equipment. During mixing, the temperature must not rise excessively; otherwise, the thermoplastic redispersible polymer powder may agglomerate, forming small resin lumps.

When using the dry-mix mortar, add a sufficient amount of water and mix manually or mechanically.

Since manual mixing generates lower shear force, it is recommended to allow the mixed material to stand for 5 minutes for maturation, then remix before use. This step is not required when using forced spiral mechanical mixers.

Storage

9055E must be stored in a cool place and protected from moisture. Due to its thermoplastic nature, pressure should be avoided during storage at elevated temperatures, otherwise there is a risk of caking. From the date of delivery, the storage period should not exceed 12 months.

When 9055E is mixed with hydraulic binders, fillers, pigments, etc., storage stability can be improved, as these materials help prevent agglomeration. However, such mixtures must still be protected from moisture.

Packaging

25 kg paper bags (with polyethylene inner liner)

(For long-distance sea transport: composite cardboard cartons with polyethylene lining on pallets)

Big bags (weight and dimensions according to requirements)

Bulk packaging (according to customer requirements)

Other Information

If 9055E is used in applications other than those recommended above, product selection, processing, and use are the sole responsibility of the customer. The customer must also comply with relevant laws and regulations.

Safety Information

Detailed safety information is contained in the Safety

Data Sheet (SDS) for each product and is available upon request.

The data listed in this document are based on our current knowledge, but this does not exempt the user from the obligation to carefully inspect the product upon receipt. Within the scope of technical progress or new developments, we reserve the right to change product constants. Due to certain processing conditions beyond our control, especially when using raw materials from other suppliers, the recommendations in this document must be verified by preliminary testing. The information provided does not exempt the user from checking for possible third-party intellectual property rights. Whether expressed or implied, the recommendations herein do not constitute a warranty of effectiveness or general applicability of the product for any specific application.