



**REDISPERSIBLE
POLYMER
POWDER**

2024 AICHEMICA International Co., LTD

COMPANY PROFILE

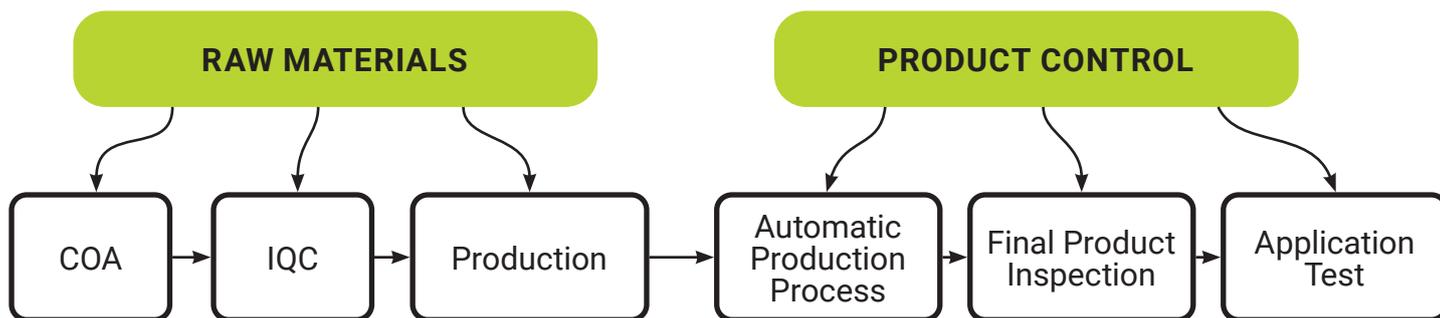
AICHEMICA International Co., LTD is an international company, specialized in development, consulting and supplying chemical raw materials. We are a professional company specialized in research, development and supply different chemical raw materials. We offer high quality products, advanced know-how, after-sales service and technical support. AICHEMICA is able to meet most challenging product requirements to provide effective solutions to the construction, building and petrochemical industries.

Our products are achieved customer satisfaction through quality management, high technical R&D assistance in multiple countries such as: Russian Federation, Uzbekistan, Kazakhstan, Kyrgyzstan, Egypt and UAE. We are cooperating with the leading technical engineers who have PhD degrees in the field of product development and advanced application methods.





QUALITY CONTROL



AN-R5012

WATERPROOF REDISPERSIBLE POLYMER POWDER

AN-R5012 is a waterproof redispersible polymer powder formed by spray drying of acrylate copolymer emulsion. The addition of acrylic powder can improve the construction property of dry powder mixture, strengthen the adhesion to substrate, with good waterproof, weather resistance and alkali resistance.

Based polymer: AE/SM

Appearance: White powder, Free-flowing
Solid content (%): ≥ 98.0

Ash content (%): 15 ± 2

Bulk density (g/L): 400–600

Particle size (μm): 80–120

PH value: 7–9

Tg ($^{\circ}\text{C}$): 0

Application:

Waterproof mortar

Repairing mortar

Dry powder stone-like coating

Dry powder texture coating

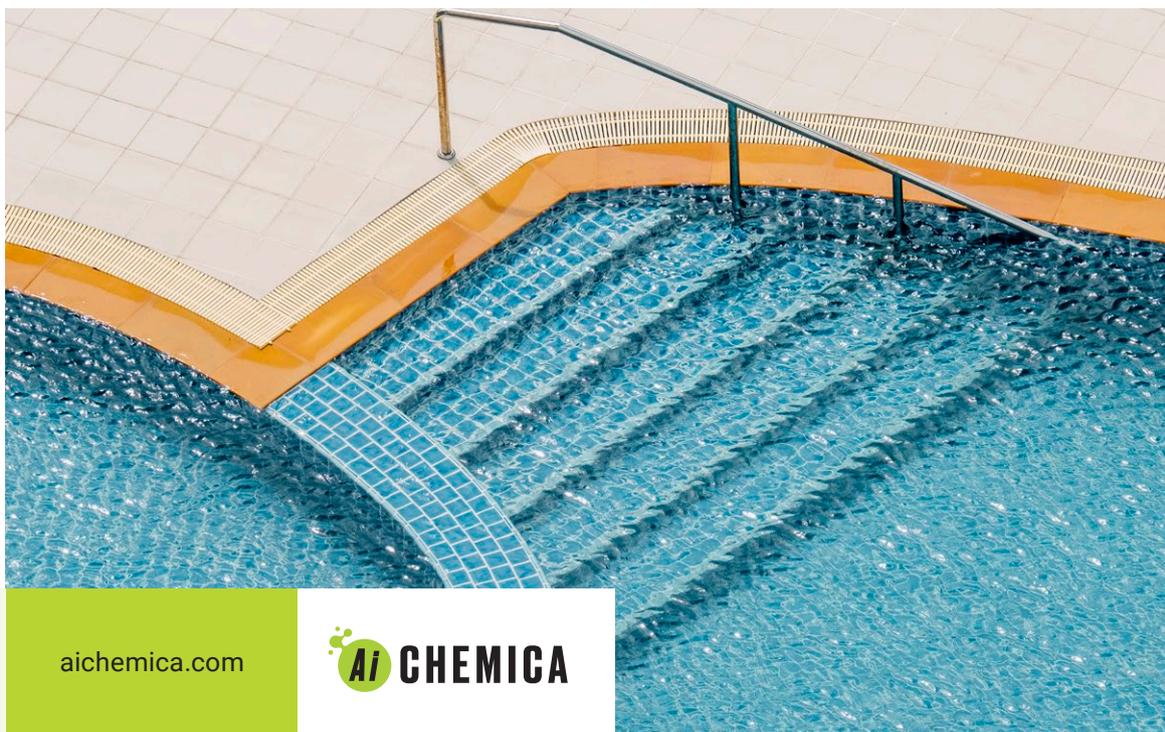
Dry powder latex coating

Cement products

Non cement based color mortar.

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.



AN-R5050

ODORLESS REDISPERSIBLE POLYMER POWDER

AN-R5050 is an odorless redispersible polymer powder formed by the imported special polymer emulsion with flash distillation process. It has good flexibility, alkali resistance and adhesion, excellent environmental performance.

Based polymer: VAC/E

Appearance: White powder, Free-flowing
Solid content (%): ≥ 98.0

Ash content (%): 10 ± 2

Bulk density (g/L): 400–600

Particle size (μm): 80–120

PH value: 7–8

Tg ($^{\circ}\text{C}$): 0

Free formaldehyde content: Qualified

VOC content: Qualified

Soluble heavy metal content: Qualified

Application:

Diatom mud

Shell powder

Decorative lines

Decorative putty

Interior dry powder latex paint

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.





AN-R5098

REDISPERSIBLE POLYMER POWDER

AN-R5098 is a redispersible polymer powder formed by spray drying of tertiary vinyl carbonate, ethylene and vinyl acetate copolymer emulsion using RAFT polymerization process. This product has excellent flexibility after film forming. It can improve the sealability, impermeability, water resistance, frost resistance and weather resistance of mortar.

Based polymer: VV-10/ VAC/E

Appearance: White powder,
Free-flowing

Solid content (%): ≥ 98.0

Ash content (%): 8 ± 2

Bulk density (g/L): 400–600

Particle size (μm): 80–120

PH value: 6–8

Tg ($^{\circ}\text{C}$): -5

Application:

Flexural putty

Cement based polymer mortar with
High flexibility

Insulation mortar

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.



AN-R5065

REDISPERSIBLE POLYMER POWDER

AN-R5065 is a redispersible polymer powder formed by spray drying of copolymer emulsions of tertiary vinyl carbonate, ethylene and vinyl acetate. This product has excellent adhesion, water resistance, alkali resistance and frost resistance.

Based polymer: VV-10/ VAC/E
Appearance: White powder,
Free-flowing
Solid content (%): ≥ 98.0
Ash content (%): 8 ± 2
Bulk density (g/L): 400–600
Particle size (μm): 80–120
PH value: 6–8
Tg ($^{\circ}\text{C}$): -5

Application:

SelHevelling mortar

Dry powder interface agent Insulation mortar

High performance tile adhesive

Floor material with non-cement based dry mixed mortar

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.

AN-R5088

REDISPERSIBLE POLYMER POWDER

AN-R5088 is a redispersible polymer powder formed by spray drying of ethylene and vinyl acetate copolymer emulsions designed with flexible end groups. This product has good solubility and flexibility after film forming. It can effectively improve the sealability, impermeability, water resistance, frost resistance and weather resistance of mortar.

Based polymer: VAC/E
Appearance: White powder,
Free-flowing
Solid content (%): ≥ 98.0
Ash content (%): 10 ± 2
Bulk density (g/L): 400–600
Particle size (μm): 80–120
PH value: 6–8
Tg ($^{\circ}\text{C}$): 0

Application:

Tile grout

Interface agent

Flexural putty

Gypsum based products

Insulation mortar

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.



AN-R1505

REDISPERSIBLE POLYMER POWDER

AN-R1505 is a redispersible polymer powder formed by spray drying of ethylene and vinyl acetate copolymer emulsion by continuous polymerization process. This product can effectively improve the mortar folding, compressive strength, enhance the adhesion of mortar on various substrate.

Based polymer: VAC/E
Appearance: White powder,
Free-flowing
Solid content (%): ≥ 98.0
Ash content (%): 13 ± 2
Bulk density (g/L): 400–600
Particle size (μm): 80–120
PH value: 6–8
Tg ($^{\circ}\text{C}$): 5

Application:

Putty

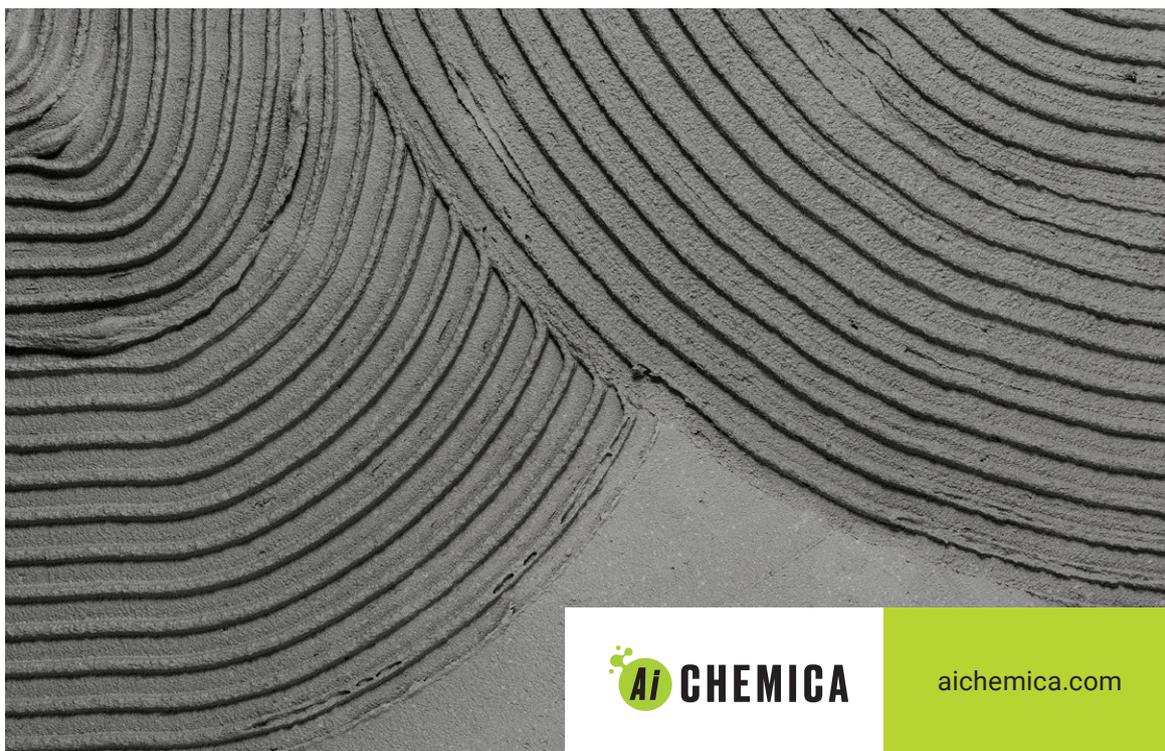
Interface agent

Insulation mortar

Gypsum based products

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.



AN-R1506-2

REDISPERSIBLE POLYMER POWDER

AN-R1506-2 is a redispersible polymer powder formed by spray drying of ethylene and vinyl acetate copolymer emulsion using CRP polymerization process. This product has good adhesion, water resistance, alkali resistance and frost resistance.

Based polymer: VAC/E
Appearance: White powder,
Free-flowing
Solid content (%): ≥ 98.0
Ash content (%): 10 ± 2
Bulk density (g/L): 400–600
Particle size (μm): 80–120
PH value: 6–8
Tg ($^{\circ}\text{C}$): 13

Application:

Self-levelling mortar

Tile adhesive

Insulation mortar

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.





AN-R1506-1

REDISPERSIBLE POLYMER POWDER

AN-R1506-1 is a redispersible polymer powder formed by spray drying of ethylene and vinyl acetate copolymer emulsion using the “macromolecular” polymerization process. This product can give mortar good fluidity, construction, effectively improve mortar cohesion, impact resistance, abrasion resistance, weather resistance, sealability, impermeability and bonding strength.

Based polymer: VAC/E
Appearance: White powder,
Free-flowing
Solid content (%): ≥ 98.0
Ash content (%): 15 ± 2
Bulk density (g/L): 400–600
Particle size (μm): 80–120
PH value: 6–8
Tg ($^{\circ}\text{C}$): 15

Application:

Putty

Insulation mortar

Tile adhesive

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C , in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.

PVA1788\2488

POLYVINYL ALCOHOL

Polyvinyl alcohol powder is a kind of water-soluble environment-friendly polymer, which use liquid nitrogen as agent and crushed at low temperature. It has good film-forming, emulsifying and bonding properties. It is especially good for building mortar additives, improving the flexibility, water retention and viscosity of mortar. In addition, it can reduce the friction of mortar, therefore enhancing the working efficiency and quality, preventing the crack and falling off of plastering layer, enhancing the adhesion strength and smoothness.

1788:

Average degree of polymerization (DP): 1700–1800
Molecular weight (Mn): 84000-89000
Viscosity (cps): 21–26
Alkalization (mole%): 86–89
Volatility (wl%): < 5
Ash content (wl%): < 0.5
PH Value: 5–7
Fineness: 160 mesh passing rate > 95%

2488:

Average degree of polymerization (DP) : 2400–2500
Molecular weight (Mn): 118000–124000
Viscosity (cps): 44–50
Alkalization (mole%): 86–89
Volatility (wt%): < 5
Ash content (wt%): < 0.5
PH Value: 5–7

Application 1788:

Interior wall putty

Tile adhesive

Dry mix mortar Insulation layer adhesive

Thin set mortar

Flexible adhesive Material paste

Latex paint softener

Application 1788:

Cement additive

PVC emulsion Rewetting adhesive Cosmetics

Screen photographic flim

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C, in a dry cool place, avoid long time high pressure storage, please seal the unspent powder, avoid damp and exposure to air.

Comparative between 1788 and 2488, 1788 is relatively fast in solubility, and 2488 is relatively high in viscosity, but the bond strength of the two is same



WOOD FIBER

Wood fiber is a kind of organic flocculent fiber material obtained from natural renewable wood through chemical treatment and mechanical processing. It has the characteristics of hydrophilicity, lipophilicity, softness, light weight, strong elasticity, good swollenness, high thermal stability and strong hygroscopicity.

Appearance: white fiber

Fiber length (mm): < 1

Fiber content (%): approx.99.5

PH value: approx.6

Bulk density (g/cm³): approx. 20

Application:

Water resistance putty

Tile adhesive

Plaster mortar

Mineral mortar

Exterior insulation mortar

Cement plastering mortar

Waterproof mortar

Package: Paper plastic composite bag. N.W. is 25 ± 0,5 kg/bag.

Storage: Below 30°C, in a dry cool place.



POLYPROPYLENE STAPLE FIBER

Polypropylene staple fiber use polypropylene as the main raw material with special composite technology, which can improve the crack resistance, impermeability, erosion resistance, frost resistance and explosion resistance of mortar and concrete.

Fiber shape: Monofilaments
Density (k/cm³): 0.91
Equivalent Diameter: 18–48
Tensile Strength (Mpa): ≥ 500
Elasticity modulu (Mpa): ≥ 3500
Break elongations (%): 10–28
Melting point (°C): 160–180
Fire point (°C): 580
Resistance to acid, alkali: good
Length (mm): 3, 6, 9, 12

Application:

Insulation mortar

Plastering mortar

Putty

Concrete

Construction engineering layer

Bridge

Cast at site for building roof, basement floor/side wall/roof

Package: Paper plastic composite bag. N.W. is $25 \pm 0,5$ kg/bag.

Storage: Below 30°C, in a dry cool place.





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