









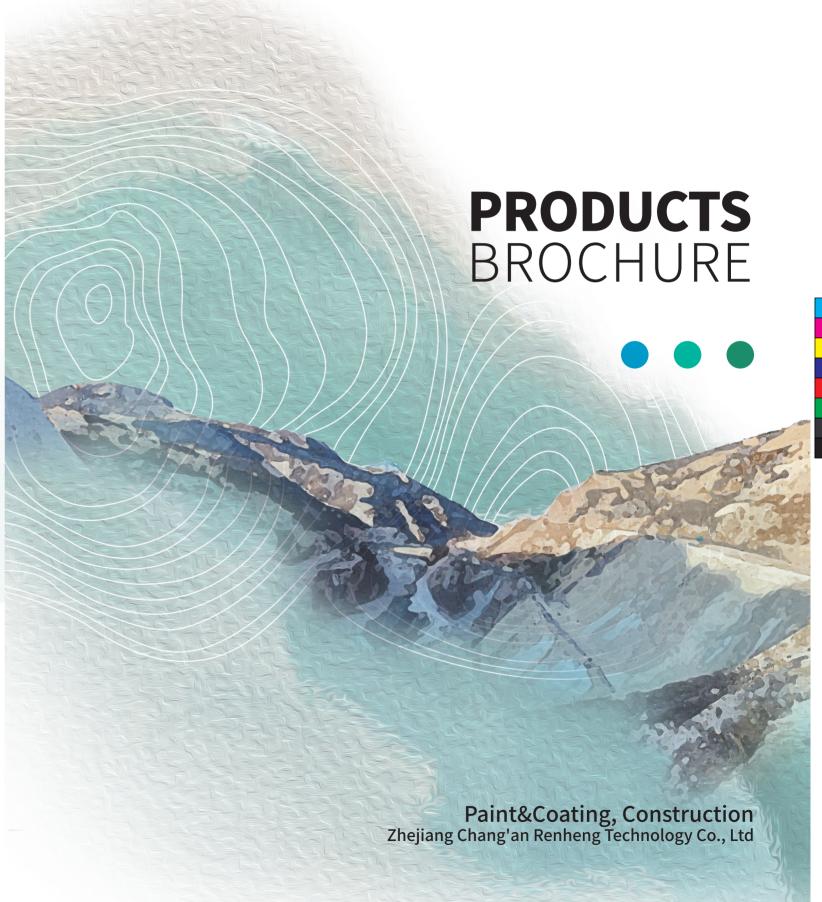
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Chang' an RENHENG INTRODUCTION AND HISTORY

Zhejiang Chang'an Renheng Technology Co., Ltd, is one of the world's leading manufacturers in inorganic rheology modifiers, specializing in bentonite clay performance products. The company was listed on the Hong Kong Stock Exchange in 2015. Its product lines are mainly used in various fields, including paints and coatings, inks, agricultural chemicals, oil fields, foundry, colorant, paper, printing ink, textile and other composite materials. We adhere to the principles of natural, low-carbon, healthy and sustainable development. We not only provide global customers with leading inorganic and organically Bentonite clay rheological additive solutions, but also offer professional technical service support and customer formulations optimization, to deliver a full range of innovative green solutions.

We offer a full range of inorganic and organically modified bentonite rheological additive CLAYMINTON®, which features excellent whiteness,transparency, dispersibility, anti-settling, sag control, pigment or filler suspension properties. Furthermore, we have established technical service expert teams across different market sectors to assist customers in formulation development, technical application, or product innovation.

BENTONITE Rheology Modifier Innovative Solution

Nature, Healthier, Sustainable Growth

Competitive Advantages

Large-scale drying field

65000 square meters of large-scale drying field

ensuring a green raw material supply

✓ Gree
✓ Susta
✓ Wind

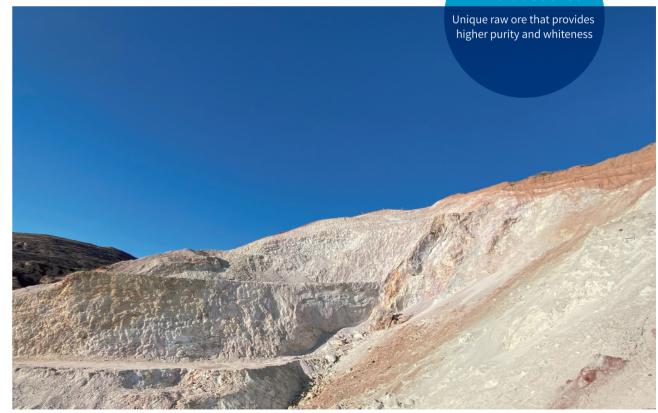
Green ecolog safe produ

Zero-carbon Empowerment

- √ Green manufacturing site and mine
 √ Sustainability Cortification from SGS
- $\sqrt{\ }$ Sustainability Certification from SGS
- $\sqrt{}$ Wind and solar clean energy

Green ecological factory and safe production process

Rare Mineral Source





Waterborne Architectural

Coatings System



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® ZT	Economical rheology modifier	Economical natural aluminum-magne- sium silicate rheology Modifier. Eco-friendly, Good dispersibilty, thixotropy, sag control, and storage stability. Replacement of attapulgite, effective in PH5-12 range, cost effective	 General architectural coatings Waterproof coatings Inorganic coatings Stucco 	0.3%- 2.0%wt
CLAYMINTON®ZW-D	Ultra-fine natural aluminum magnesium silicate rheology modifier	Excellent low shear viscosity, ultra-fine particles, excellent dispersibility, good thixotropy, outstanding sag control and storage stability, excellent heat resistance. Effective in PH5-12, good water resistance and color development	General architectural coatings Waterproof coatings Inorganic coatings Stucco	0.3%- 2.0%wt
CLAYMINTON® ZW	Natural aluminum magnesium silicate rheology modifier	Excellent dispersibility, pigment suspension, flow property, water retention, alkali resistance. Excellent anti-settling and sag control. Effective in PH3-12. High versatility, suitable for both primer and topcoat	Architectural coatings Waterproof coatings	0.3%- 2.0%wt
CLAYMINTON®ZL	Natural ultra-fine aluminum magnesium silicate rheology modifier	High whiteness, ultra-fine particles, strong low shear viscosity, excellent dispersibility, good flow and water retention, good alkali resistance. Outstanding stucco paint application performance. Strong sag control, effective in PH3-12 range	Architectural coatings Waterproof coatings Stucco paint Texture coatings Inorganic coatings	0.3%- 2.0%wt





Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® HC10	Organically modified bentonite rheological additive	Economical organically modified bentonite rheological additive, good low to mid shear viscosity, excellent dispersibility, anti-settling, sag control and storage stability. Effective in PH3-12 range. Pre-gel will be recommended before use	 High-quality architectural paints Wood coatings Inorganic coatings Stucco Art coatings Colorant Inks 	0.3%- 1.0%wt
CLAYMINTON® HC30	Organically modified bentonite rheological additive	Economical easy-to-disperse organically modified bentonite clay rheological additive, excellent low to mid shear viscosity, good dispersibility, outstanding balance in anti-settling, sag control and storage stability, and color development, effective in PH3-12 range, pre-gel will be recommended before use	 High-quality architectural paints Wood coatings Inorganic coatings Stucco Art coating Colorant 	0.3%- 1.0%wt
CLAYMINTON® HC50	Organically modified bentonite rheological additive	Organically modified bentonite clay rheological additive, provides high low to mid shear viscosity, good dispersibility, outstanding balance in anti-settling, sag control and storage stability, and color development, effective in PH3-12 range, pre-gel will be recommended before use	 High-quality architectural paints Wood coatings Inorganic coatings Stucco Art coating Colorant 	0.3%- 1.0%wt



Waterborne Industrial Coatings, Inks, Colorants



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® LW	High purity inorganic bentonite rheological additive	Provides low shear viscosity, excellent dispersibility, pigment suspension, anti-settling, good thixotropy, sag control and storage stability. Excellent compatibility with high polarity co-solvents, and suitable for PH5-12 range	Water-based industrial coatings Anti-corrosion coatings Art coatings Inks Textile coatings Inorganic coatings	0.3%- 2.0%wt
CLAYMINTON® LB	High perfor- mance inorganic bentonite rheological additive	Provides low shear viscosity, excellent dispersibility, pigment suspension, anti-settling, good thixotropy, sag control and storage stability. Outstanding color development and transparency. Excellent compatibility with high polarity co-solvents, and suitable for PH5-12 range	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.3%- 2.0%wt
CLAYMINTON® LBC	High purity inorganic bentonite rheological additive	Ultra-high whiteness, excellent low shear viscosity, better dispersibility, anti-settling, strong thixotropy, anti-sagging and storage stability, high transparency, less gloss impact, good compatibility with high polarity co-solvents, suitable for PH5-12 range	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.3%- 2.0%wt
CLAYMINTON® LBC-S	High purity inorganic bentonite rheological additive	Ultra-high whiteness, Excellent low shear viscosity, superior dispersibility, anti-settling, thixotropy, anti-sagging and storage stability, high transparency, good compatibility with high polarity co-solvents, suitable for PH5-12 range. Excellent color development	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.3%- 2.0%wt
CLAYMINTON® EJ	High purity and efficiency inorganic bentonite rheological additive	High-purity,ultra-dispersible, pigment suspension, good transparency, and storage stability. It can be made into a 12% flowable pregel, high thixotropy, especially suitable for high solid paints without obvious gloss impact, good compatibility with high-polarity system. effective in the PH5-12 range	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.3%- 2.0%wt



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON®EJS	High-purity and dispersible bentonite rheological additive	High-purity, ultra-dispersible, pigment suspension, good transparency, and storage stability. It can be made into a 12% flowable pregel, high thixotropy, especially suitable for high solid paints without obvious gloss impact, good compatibility with high-polarity system. effective in the PH5-12 range	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.3%- 2.0%wt
CLAYMINTON® HZ	Organically modified bentonite rheological additive	Good thickening efficiency, provides good medium and low shear viscosity, excellent anti-settling and sag control with good leveling. Cost effective, excellent dispersibility and transparency, good compatibility with high-polarity co-solvents, effective in the PH3-12 range, good color development	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.2%- 1.0%wt
CLAYMINTON® HE	Organically modified bentonite rheological additive	Excellent thickening efficiency, provides good medium and low shear viscosity, excellent anti-settling and sag control with good leveling. Cost effective, excellent dispersibility, good transparency, good compatibility with high-polarity co-solvents, effective in the PH3-12 range, good color development	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.2%- 1.0%wt
CLAYMINTON® HT	Organically modified bentonite rheological additive	Strong thickening efficiency, provides medium and low shear viscosity, excellent anti-settling and sag control with good leveling. Cost effective, excellent dispersibility and transparency, good compatibility with high-polarity co-solvents, effective in the PH3-12 range, good color development	Water-based industrial coatings Anti-corrosion coatings Container coatings Art coatings Inks Textile coatings Inorganic coatings Colorant	0.2%- 1.0%wt

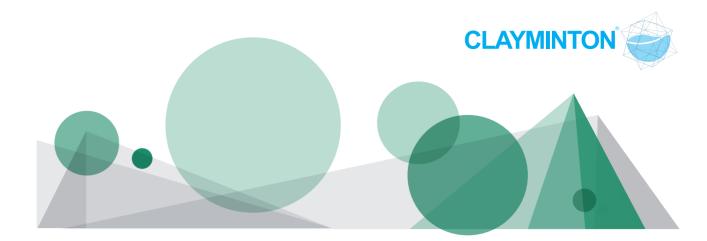


Construction

Overview



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® BK-2	Nature refined bentonite	Nature refined bentonite clay, cost effective, significantly improve pumpability & shear thinning, good workability and tooling, obviously reduce the friction resistance during application. Good balance between slip and sag control or slump resistance. Good adhesion strength improvement	Putty Plaster Mortar Gypsum based EIFS	0.05- 1.0%wt
CLAYMINTON®PT-01	High purity unrefined bentonite clay	Nature high purity bentonite clay, good shear shinning efficiency, good thickening efficiency and water retention. Excellent stability and cost effective	Putty Plaster Mortar Gypsum based EIFS	0.05- 1.0%wt
CLAYMINTON® PT-01S	High purity dispersible bentonite clay	Nature high purity bentonite clay, better dispersibility, good shear shinning efficiency, good thickening efficiency and water retention. Excellent stability and cost effective	Putty Plaster Mortar Gypsum based EIFS	0.05- 1.0%wt
CLAYMINTON® PT-02	High purity refined bentonite clay	Nature high purity refined bentonite clay, higher active and whiteness, good dispersibility, excellent shear shinning efficiency, better thickening efficiency and water retention. Excellent stability and cost effective	Putty Plaster Mortar Gypsum based EIFS	0.05- 1.0%wt
CLAYMINTON®PT-02S	Easily dispersible high purity bentonite clay	Nature high purity refined bentonite clay, higher active and whiteness, excellent dispersibility, excellent shear shinning efficiency, better thickening efficiency and water retention. Excellent stability and cost effective against CMC	Putty Plaster Mortar Gypsum based EIFS	0.05- 1.0%wt
CLAYMINTON®PT-650	Super refined bentonite clay	Super refined bentonite clay, eco-friendly, excellent-thickening and shear shinning efficiency, super dispersibility, significantly improve workability and surface leveling and smoothness. Excellent sag control	Plaster Mortar Gypsum based EIFS Tile adhesive	0.05- 1.0%wt



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON®PT-05	Super refined bentonite clay	Super refined bentonite clay, higher active and whiteness, excellent shear-shinning efficiency, good water retention, excellent tooling and workability, High performance and cost effective against cellulose ether and starch ether	Putty Plaster Mortar Gypsum based grouts Tile adhesive	0.05- 1.0%wt
CLAYMINTON®PT-05S	Super refined and dispersible bentonite clay	Super refined bentonite clay, higher active and whiteness, better dispesibility compared to PT-05. excellent shear-shinning efficiency, good water retention, excellent tooling and workability, High performance and cost effective against cellulose ether and starch ether	PuttyPlasterMortarGypsum based groutsTile adhesive	0.05- 1.0%wt
CLAYMINTON®PT-6805	Unique high purity refined bentonite clay	Unique purity refined bentonite clay, eco-friendly, excellent thickening and shear-shinning efficiency, super dispersibility, significantly improve workability and surface leveling and smoothness. Excellent sag control	Putty Plaster Mortar Gypsum based grouts Tile adhesive	0.05- 1.0%wt
CLAYMINTON®CT-02	High purity refined bentonite clay	Nature high purity bentonite clay, better dispersibility, good shear-shinning efficiency, good thickening efficiency and water retention. Excellent stability and cost effective	• Tile adhesive • Mortar	0.05- 1.0%wt
CLAYMINTON®CT-05	Super refined bentonite clay	Super refined bentonite clay, higher active and whiteness, excellent shear-shinning efficiency, good water retention, excellent tooling and workability, High performance and cost effective against cellulose ether and starch ether. Excellent slump resistance and adhesion strength improvement.	• Tile adhesive	0.05- 1.0%wt
CLAYMINTON® CT-05S	Super refined and dispersible bentonite clay	Super refined bentonite clay, higher active and whiteness, better dispesibility compared to PT-05. excellent shear-shinning efficiency, good water retention, excellent tooling and workability, High performance and cost effective against cellulose ether and starch ether.	• Tile adhesive	0.05- 1.0%wt
CLAYMINTON® CT-06	Unique refined bentonite clay	Unique high purity refined bentonite clay, excellent shear-shinning property, superior thickening and sag control, slump resistance. Improve workability, tile slip resistance and adhesion strength	• Tile adhesive	0.05- 1.0%wt



Non-aqueous Industrial Coatings, Inks, Adhesive



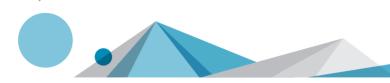
Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® 54	Classical Conventional Organoclay	Classic conventional organoclay, designed for low and mid polarity systems, good dispersibility with or without activator, excellent thickening efficiency, Excellent anti-settling and sag control properties, good flow properties. Suitable for texture powder coating formulation with excellent transparency and sand texture efficiency	General industrial anti-corrosion coatings PC& marine coatings Wood coatings Powder coatings Inks	0.3%- 2.5%wt
CLAYMINTON® 66	Economic Conventional Organoclay	Conventional organoclay, high thickening capacity, suitable for medium and low polarity systems, good sag control and cost effective	General industrial anti-corrosion coatings PC& marine coatings Wood coatings Powder coatings Inks	0.3%- 2.5%wt
CLAYMINTON® 68	Economical Universal Organoclay	Economical universal conventional organoclay, excellent thickening, good balance between sag control and anti-settling properties, suitable for medium and low polarity systems. cost effective.	General industrial anti-corrosion coatings PC& marine coatings Wood coatings Powder coatings Inks	0.3%- 2.5%wt
CLAYMINTON® 69	Economic Special Organoclay	Economical special organoclay with excellent thickening and dispersibility in UPR resin. Provides low to mid shear viscosity. Excellent sag control and anti-settling properties, recommended for low to mid polarity systems. Recommended to use in unsaturated resin such as auto putty, wood PE putty, UPR composites	Unsaturated resin systems such as putty PE putty UPR composites	0.3%- 2.5%wt
CLAYMINTON® 70	Universal Organoclay	General-purpose, suitable for medium and low polarity systems, good dispers- ibility and whiteness, wide range of application, no pre-gel, no activator, excellent sag control and heat storage stability, cost-effective	High solid coatings Wood Coatings Container coatings Anticorrosive coatings Marine coatings General industrial coatings	0.3%- 2.5%wt
CLAYMINTON®70S	Universal Dispersible Organoclay	General-purpose easy-dispersible type, suitable for medium and low polarity systems, excellent dispersibility, no activator, excellent sag control and heat storage stability, cost-effective	High solid coatings Wood Coatings Container Coatings Anticorrosive coatings Marine coatings General industrial coatings	0.3%- 2.5%wt



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® 71	Self-activated Dispersible Organoclay	Self-activated, easy dispersible, suitable for medium and low polarity systems, with excellent dispersibility, excellent thickening efficiency, anti-settling, sag control and storage stability	•General industrial coatings •Wood coatings •Container coatings •Anti-corrosion coatings •Marine coatings •Sealants	0.3%- 2.5%wt
CLAYMINTON® 77	Dispersible Organoclay	Easily dispersible organoclay, with a wide polarity application range, designed for use in solvent-free resin system, with excellent thickening properties, anti-settling, sag control and storage stability.	 Solvent free UV Sealant High solid paint &coatings Heavy duty paints Container and PC &Marine paints etc 	0.3%- 2.5%wt
CLAYMINTON® 92	Self-activated Dispersible Organoclay with high transparency	Self-activated dispersible organoclay, suitable for medium and low polarity systems, excellent transparency, balanced performance in thickening, anti-settling, sag control and storage stability. Good heat storage stability. Recommended to use in high performance coatings	 Industrial and wood coatings Container coatings Anti-corrosion coatings Marine coatings Solvent free and high solid coating 	0.3%- 2.5%wt
CLAYMINTON® 90	Self-activated Dispersible Organoclay with high transparency	Self-activated dispersible organoclay, suitable for medium and low polarity systems, better transparency, balanced performance in thickening, anti-settling, sag control and storage stability. Good heat storage stability. Recommended to use in high performance coatings	•Industrial coating •Wood coating •PC&Marine coatings •Sealant •Floor coating •High solid coatings	0.3%- 2.5%wt
CLAYMINTON®81	Self-activated Super Dispersible Organoclay	Suitable for low to mid polarity systems, self-activated, super dispersible grade organoclay, excellent transparency, balanced performance in thickening, anti-settling, sag control and storage stability.	Wood coating Container Anti-corrosion Marine coatings Solvent free and high solid coating	0.3%- 2.5%wt



Non-aqueous Industrial Coatings, Inks, Adhesive



Product	Descrip- tion	Features and Advantages	Application Field	Use Level
CLAYMINTON® 73	Economical Dispersible Organoclay	Economical dispersible organoclay, suitable for medium polarity system. Excellent dispersibility, thickening efficiency, sag control and storage stability	General industrial coatings Wood coatings Container coatings Heavy duty and marine paint Sealant Solvent free and high solid coatings	0.3%- 2.5%wt
CLAYMINTON® 72	Universal Dispersible Organoclay	Universal Dispersible Organoclay, suitable for medium and high polarity systems, excellent dispersibility, anti-set- tling and sag control properties at lower viscosity. Recommended for high solids coatings	General industrial coatings Wood coatings Container coatings Heavy duty Marine paint Sealant Solvent free and high solid coatings	0.3%- 2.5%wt
CLAYMINTON® 75	Super Dispersible Organoclay	Excellent whiteness, suitable for medium polarity systems, designed for high solids and solvent-free systems, with excellent dispersibility, thickening, anti-settling, anti-sag properties and storage stability. Excellent versatility, used as replacement of fume silica	General industrial coatings Wood coatings Container coatings Heavy duty Marine paint Sealant Solvent free and high solid coatings UV coatings	0.3%- 2.5%wt
Clayminton® 76	Super Dispersible Organoclay	Excellent whiteness, suitable for medium polarity systems, designed for high solids and solvent-free systems, with excellent dispersibility, thickening, anti-settling, anti-sag properties and storage stability. Excellent versatility, used as replacement of fume silica	UV coatings Adhesive PC&Marine coatings Container coatings High solid coatings or sealant	0.3%- 2.5%wt
CLAYMINTON®80	Super Dispersible Organoclay	Super dispersible organoclay suitable for medium and high polarity systems, excellent transparency, thickening and thixotropic properties. Excellent sog control and storage stability.	Wood coating Container PC&Marine coating General industrial coatings High solid coating	0.3%- 2.5%wt
CLAYMINTON® 82	Self-activated Super Dispersible Organoclay	Self-activated super dispersible Organo- clay, designed for medium and high polarity systems, excellent dispersibility, anti-settling, sag control. Suitable for high-solid, low-viscosity coatings.	General Industrial coating Wood coating Container Anti-corrosion paint&coating Marine coatings 2K epoxy floor coating and high solid system	0.3%- 2.5%wt

CLAYMINTON

Selection Chart Non-aqueous Paint&Coatings, Inks, Adhesive

Product	Mid to Long Oil Alkyd Resin	Short Oil Alkyd Resin	Thermo plastic Acrylic	Therm oset Acrylic Resin	2K Epoxy Resin	1Kor 2K PU	Epoxy Adhsive	PU Adhesive	Amino- Polyester	UPRor PE	UV Resin	Powder Coating	Offset Printing Inks	PVB Inks
CLAYMINTON® 54	***		**	**	***	**	**		***			***		*
CLAYMINTON® 66	**		***						***	*				
CLAYMINTON® 68	***	***		***	*			*				***	*	
CLAYMINTON® 69										**				
CLAYMINTON® 70	**		**	**	**		*	**		**		**	*	**
CLAYMINTON® 70S									*					
CLAYMINTON® 71		**		*		**		***				**		
CLAYMINTON® 73	*		***	**	**		**	**	**	**		*	**	**
CLAYMINTON® 72	*		**	***	***	***	***	***	**	***			**	***
CLAYMINTON® 75							**				***			
CLAYMINTON® 76											***	*		
CLAYMINTON® 77		*				*					**			
CLAYMINTON® 81		***				***					**		***	
CLAYMINTON® 82				***	***		***			***				***
CLAYMINTON® 90		**				**					*		***	
CLAYMINTON® 92		**												

Selection Chart Waterborne Paint&Coating, Ink, Colorant

Product	Archite- cture Coating	Wood Coating	Anti-cor- rosion Coatings	Industrial Coating	Floor Coating	Inorganic Coating	Art Coating	Stucco Paint	Stone Paint	Inks	Colo- rants
CLAYMINTON® WT				**	*						
CLAYMINTON® LW		*	**		***					*	**
CLAYMINTON® LB		**	***	***	***					***	***
CLAYMINTON® LBC					**						
CLAYMINTON® LBC-S		**								*	
CLAYMINTON® EJ		***								***	**
CLAYMINTON® EJS		***								**	
CLAYMINTON® HZ			***	**	**						
CLAYMINTON® HE		**	**	*						**	***
CLAYMINTON® HT				***							
CLAYMINTON® ZT								*	***		
CLAYMINTON® ZW-D	**										
CLAYMINTON® ZW	***					***	**	***	***		
CLAYMINTON® ZL	**					***	***	***	**		
CLAYMINTON® HC10	***					**	**	**			
CLAYMINTON® HC30	*					**	***	**	**		
CLAYMINTON® HC50						*	*				

Selection Chart Construction System



Product	Putty Mortar EFIS	Grouts	Cement Base Flooring	Gypsum	Plasters	Tile Adhesive C0	Tile Adhesive C1/C1T	Tile Adhesive C2/C2T	Render Gypsum Based	Pumpable Mortar
CLAYMINTON® BK-2	*					***				***
CLAYMINTON® PT-01	**									***
CLAYMINTON® PT-01S	***				***					*
CLAYMINTON® PT-02	**	**	**	***	**				**	**
CLAYMINTON® PT-02S	***	**	*	*	***				***	
CLAYMINTON® PT-650		*	***		*				***	
CLAYMINTON® PT-05	*	***	**	***	**				**	
CLAYMINTON® PT-05S		***	***	*	*					
CLAYMINTON® PT-6805		**			**					
CLAYMINTON® CT-02							***	**		
CLAYMINTON® CT-05							**	***		
CLAYMINTON® CT-05S							**	***		
CLAYMINTON® CT-06								*		