



BENTONITE

RHEOLOGY ADDITIVES

Product Guide
Version 1

ABOUT RENGHENG

Zhejiang Changan Renheng Technology Co., Ltd. was founded in 2000 with a registered capital of 38.4 million yuan. It is a national high-tech enterprise focusing on the research and development, production, sales and service of Bentonite related fine chemicals. CLAYMINTON is the registered trademark brand of Changan Renheng which has been highly recognized by the market due to its rich product portfolio, premium performance and competitive price.

In 2015, with the approval of the China Securities Regulatory Commission Hong Kong Securities Regulatory Commission, Changan Renheng was listed on the Growth Enterprise Board of the Hong Kong Stock Exchange.

Changan Renheng has abundant high quality bentonite mines, professional research and development team, scientific production & management system, and is committed to become one of the best raw material suppliers in the Bentonite deep processing industry.

Adhering to the enterprise philosophy of "Benevolence repairing its body, Constant causing great", we constantly pursue sustainable and long-term development, make every grain of resources to play its maximum value, and make resources better serve human beings.



ABOUT SOLINDIS

Solindis is a leading chemical distribution company offering an extensive range of UV curable materials and additives to a variety of industries in the EMEA market, which includes manufacturers of Inks, Coatings, Adhesives, Composites and 3D printing materials. Solindis supports customers to develop business by providing an optimized logistic footprint with local stocks, technical and regulatory support and a high level of customer service. Solindis with its headquarters in Waalwijk, The Netherlands is the exclusive sales partner of various renowned chemical production companies like IGM Resins and Renheng.

COMPETITIVE ADVANTAGE



	CLAYMINTON	COMPETITORS
Classified	Own mineral source	No mineral source
Purified	99% montmorillonite content	Low montmorillonite content
Sodium modified	Completely	Partially
Activated	High cation exchange capacity	Low cation exchange capacity
Organically modified	High	Low
Markel	High solid, low viscosity	Low solid, high viscosity
P/C ratio	High	Low-medium

CLAYMINTON'S BENTONITE PRODUCTS

- Self owned high quality mineral source
- High purity, high whiteness, transparency
- Professional green production process
- Classified mining, professional manufacturing, high stability of product batches
- Easy to disperse, high expansion rate, good anti-settling, thickening and levelling



MINERAL SOURCE CHARACTERISTICS

- High purity (high montmorillonite content)
- High whiteness (light color)
- Large plate layer spacing (good dispersion)
- High negative electricity (good anti-settling)
- Less Fluorine content, excellent anti settling & sagging performance



		DISPERSION	ANTI-SETTLING	ANTI-SAGGING	TRANSPARENCY	LEVELING	ANTI-FLOODING	WHITENESS	RECOMMENDED DOSSAGE (%)
SOLVENT BASED	PRIMER	CLAYMINTON 70	○	●	○	○	○	○	0.8~2.0
		CLAYMINTON 72	●	●	○	○	●	○	0.8~2.0
		CLAYMINTON 90	●	●	○	○	●	●	0.8~2.0
	TOP COAT	CLAYMINTON 72	●	●	○	○	●	●	0.5~1.0
		CLAYMINTON 75	●	●	●	○	○	●	0.5~1.0
		CLAYMINTON 81	●	○	○	●	○	●	0.5~1.0
		CLAYMINTON 90	●	●	○	○	●	●	0.5~1.0
	CLEAR COAT	CLAYMINTON 76	●	●	●	○	—	●	0.5~0.8
		CLAYMINTON 81	●	○	○	●	—	○	0.5~0.8
		CLAYMINTON 90	●	●	○	○	—	●	0.5~0.8
WATER BASED	PRIMER	CLAYMINTON LB	●	●	●	●	●	●	0.8~2.0
		CLAYMINTON HT	○	●	●	●	○	●	0.3~0.5
	TOP COAT	CLAYMINTON EJ	●	●	○	●	●	●	0.5~0.8
		CLAYMINTON LBC	●	●	●	●	●	●	0.5~0.8
		CLAYMINTON HW	○	●	●	●	○	●	0.3~0.5
	CLEAR COAT	CLAYMINTON EJ	●	●	○	○	—	○	0.5~0.8
		CLAYMINTON LB	●	●	●	●	—	●	0.5~0.8

● Best ○ Recommended ○ Applicable — Not Applicable

		DISPERSION	ANTI-SETTLING	ANTI-SAGGING	TRANSPARENCY	LEVELING	ANTI-FLOODING	WHITENESS	RECOMMENDED DOSSAGE (%)
SOLVENT BASED	PRIMER	CLAYMINTON 54	○	●	●	●	○	○	0.8~2.0
		CLAYMINTON 70	○	●	○	●	○	○	0.8~2.0
		CLAYMINTON 73	○	●	●	●	○	○	0.8~2.0
		CLAYMINTON 72	●	●	●	●	○	○	0.8~2.0
	MIDDLE COAT	CLAYMINTON 70	○	●	○	●	○	○	0.5~1.0
		CLAYMINTON 72	●	●	●	●	○	○	0.5~1.0
	TOP COAT	CLAYMINTON 72	●	●	●	●	○	○	0.5~0.8
		CLAYMINTON 75	●	●	●	●	○	○	0.5~0.8
		CLAYMINTON 90	●	●	○	●	○	●	0.5~0.8
	CLEAR COAT	CLAYMINTON 75	●	●	●	●	○	○	0.5~0.8
		CLAYMINTON 76	●	●	●	●	○	○	0.5~0.8
		CLAYMINTON 81	●	○	○	●	—	○	0.5~0.8
WATERBORNE	PRIMER	CLAYMINTON LB	○	●	○	●	○	○	0.8~2.0
		CLAYMINTON HT	○	●	●	○	○	●	0.3~0.5
	MIDDLE COAT	CLAYMINTON LB	●	●	●	●	●	○	0.5~1.0
		CLAYMINTON HW	○	●	●	○	○	●	0.3~0.5
	TOP COAT	CLAYMINTONLR	●	●	●	●	●	○	0.5~0.8
		CLAYMINTON LBC	●	●	●	●	●	●	0.5~0.8
		CLAYMINTON HT	○	●	●	○	○	●	0.2~0.3
	CLEAR COAT	CLAYMINTON LBC	●	●	●	●	○	●	0.5~0.8
		CLAYMINTON EJ	●	○	○	●	—	○	0.5~0.8
		CLAYMINTON HW	○	●	●	○	—	●	0.2~0.3

			DISPERSION	ANTI- SETTLING	ANTI- SAGGING	TRANS- PARENCY	LEVELING	ANTI- FLOODING	WHITENESS	RECOMMENDED DOSSAGE (%)
SOLVENT BASED	PRIMER	CLAYMINTON 72	○	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 90	○	●	○	●	○	●	●	0.5~1.0
	TOP COAT	CLAYMINTON 72	○	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 90	○	●	○	●	○	●	●	0.5~1.0
	CLEAR COAT	CLAYMINTON 75	●	●	●	●	○	—	○	0.5~1.0
		CLAYMINTON 76	●	●	●	●	○	—	○	0.5~1.0
	PRIMER	CLAYMINTON 72	○	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 76	●	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 82	○	●	●	●	○	●	○	0.5~1.0
WATER BORNE	TOP COAT	CLAYMINTON 72	○	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 76	●	●	●	●	○	●	○	0.5~1.0
		CLAYMINTON 90	○	●	○	●	○	●	●	0.5~1.0
	CLEAR COAT	CLAYMINTON 75	●	●	●	●	○	—	○	0.5~1.0
		CLAYMINTON 76	●	●	●	●	○	—	○	0.5~1.0

		DISPERSION	VISCOSITY	YIELDVALUE	PRINTING CLAIRTY	ANTI-MISTING WHITENESS	WHITENESS		RECOMMENDED DOSSAGE (%)
SOLVENT BASED	CLAYMINTON 54	○	●	●	●	●	○		0.5~2
	CLAYMINTON 72	●	●	●	●	●	●		0.5~2
	CLAYMINTON 90	●	○	●	●	●	●		0.5~2
WATER BORNE	CLAYMINTON LB	●	○	●	●	●	○		0.5~2
	CLAYMINTON LBO	●	●	●	●	●	●		0.5~2
	CLAYMINTON EJ	●	○	○	●	●	○		0.5~2
UV CURED	CLAYMINTON 72	○	●	●	●	●	●		0.5~2
	CLAYMINTON 76	●	●	●	●	●	●		0.5~2
	CLAYMINTON 81	●	○	●	●	●	●		0.5~2

POWDER COATING

		THICKENING	HAMMER- FINISH	ANTI- SAGGING	LEVELLING	RACEMIC PROPERTY	ANTI CRATETERING		RECOMMENDED DOSSAGE (%)
TEXTURE COATING	CLAYMINTON 70	○	○	—	●	●	●		0.5~2
	CLAYMINTON 54	●	●	—	○	●	●		0.5~2

EPOXY FLOORING COATING



		DISPERSION	ANTI- SETTLING	FLOW & LEVELLING	APPLICATION WORKABILITY				RECOMMENDED DOSSAGE (%)
SOLVENT BASED	CLAYMINTON 70	○	○	●	●				0.5~2
	CLAYMINTON 72	○	●	●	●				0.5~2
	CLAYMINTON 76	●	●	●	●				0.5~2
WATER BORNE	CLAYMINTON LB	●	●	○	●				0.5~2
	CLAYMINTON 76	●	●	●	●				0.5~2

		DISPERSION	ANTI- SETTLING	WATER SEPARATION REVENTION	SAND DROP PREVENTION	PUMP ABILITY	APPLICATION WORKABILITY	WHITENESS	RECOMMENDED DOSSAGE (%)
LATEX PAINT	CLAYMINTON ZW	○	○	○	—	●	●	○	0.1~0.2
	CLAYMINTON NB	●	●	●	—	●	●	●	0.1~0.2
STONE PAINT	CLAYMINTON ZK	○	—	○	●	●	●	○	0.1~0.2
	CLAYMINTON ZW	●	—	●	●	●	●	○	0.1~0.2
	CLAYMINTON HC-30	○	—	○	●	●	●	○	0.1~0.3
TEXTURE COATING	CLAYMINTON ZW	○	○	○	—	●	●	○	0.2~0.5
	CLAYMINTON NP	●	●	●	—	●	●	●	0.2~0.5
	CLAYMINTON HC-30	○	○	○	—	●	●	○	0.2~0.5
ART COATING	CLAYMINTON ZW	○	○	○	—	●	●	○	0.2~0.5
	CLAYMINTON NB	●	●	●	—	●	●	●	
	CLAYMINTON HC-30	○	●	○	—	●	●	○	0.2~0.5
MULTI-COLOR PAINT	CLAYMINTON NB	●	●	●	—	●	●	●	0.4~0.6



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