



SHANDONG FUYANG BIOTECHNOLOG CO., LTD.

Introduction of Modified Starch for Plasterboard

—Production capacity: 100,000 tons/year

Product Profile

Product Name: Modified corn starch

Other Names: Modified maize starch, Corn modified starch

Appearance: White powder

CAS No.: 9049-76-7

Starch type: Acidized starch, Oxidized starch



Plasterboard / Gypsum board industry

In gypsum board production, it is need to add binder to gypsum slurry. During board drying process, the binder has migration activity, which will transfer to the lap interface of protective paper board and gypsum core with evaporation of water

Acidized starch

Usage and dosage

1. Dry powder add, dosage is 1% of gypsum (Weigh separately, then mix with gypsum powder)
2. Wet add, dosage is 0.5%--0.8% of gypsum (mix with water, then add into gypsum)

Besides, dosage has indirect or direct relationship with air permeability, degree of sizing and water absorption of protective paper, specification and varieties of gypsum, air humidity, gypsum board molding and drying method, and thickness of board, etc.. It should be mastered flexibly in the production process, and stable and accurate addition quantity should be found through practice.

Functions and advantages

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Factory Add: Pingyuan Economic Development East Area, Dezhou City, Shandong Province, China

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1. The gelatinization temperature of acid modified starch is low, which can be adequately gelatinized in the drying process of gypsum board
2. The formed paste has stable viscosity, good adhesion, stable performance, and enhances interlayer adhesion and breaking strength
3. Good water resistance, easy to form a transparent film, effectively prevent the gypsum board's collapse caused by dampness
4. Our company's acidized starch is produced with wet production method, which makes it has high purity and stability, and also help save the dosage

Applications

1. Acidized starch is widely used in producing plasterboard without mortar for wall construction, various gypsum board with papersurface

Specifications

检测报告

CERTIFICATE OF ANALYSIS

产品名称 Product:	酸化淀粉 ACIDIZED STARCH	数量 Quantity:	20000KGS
批次 Batch No. :	20190325	日期 Production Date:	2019.03.25
规格 Specification:	25KG	有效期 Expiry Date:	2021.03.24



检测项目 Items	标准 Specifications	检验结果 Results
性状 Appearance	白色粉末 White powder	符合要求 Meets the requirements
水分 Determination of Water	≤14%	13.04%
细度 Fineness	≥98	99.3
斑点 SPOT (PIECE/CM2)	≤2.0	0.4
PH value	5.5-7	6.12
白度 WHITE	≥88%	90.1%
碱流度 Alkali mobility (s)	14-20	15.60

结论 Conclusion: 合格,准予出厂 Complies with requirements

检验员: 马维霞





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Package, Shelf life, Storage

Package: 25kg/bag, 20 tons / 20 ft container without pallet

850kg/bag, 17 tons / 20ft container with pallet

Shelf Life: 24 months

Storage: cool and dry place, avoid direct sunlight



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