

WATER-BASED FLOOR HARDENER SYSTEM

JOABOA TECH The Pioneer of High Quality Waterproofing System

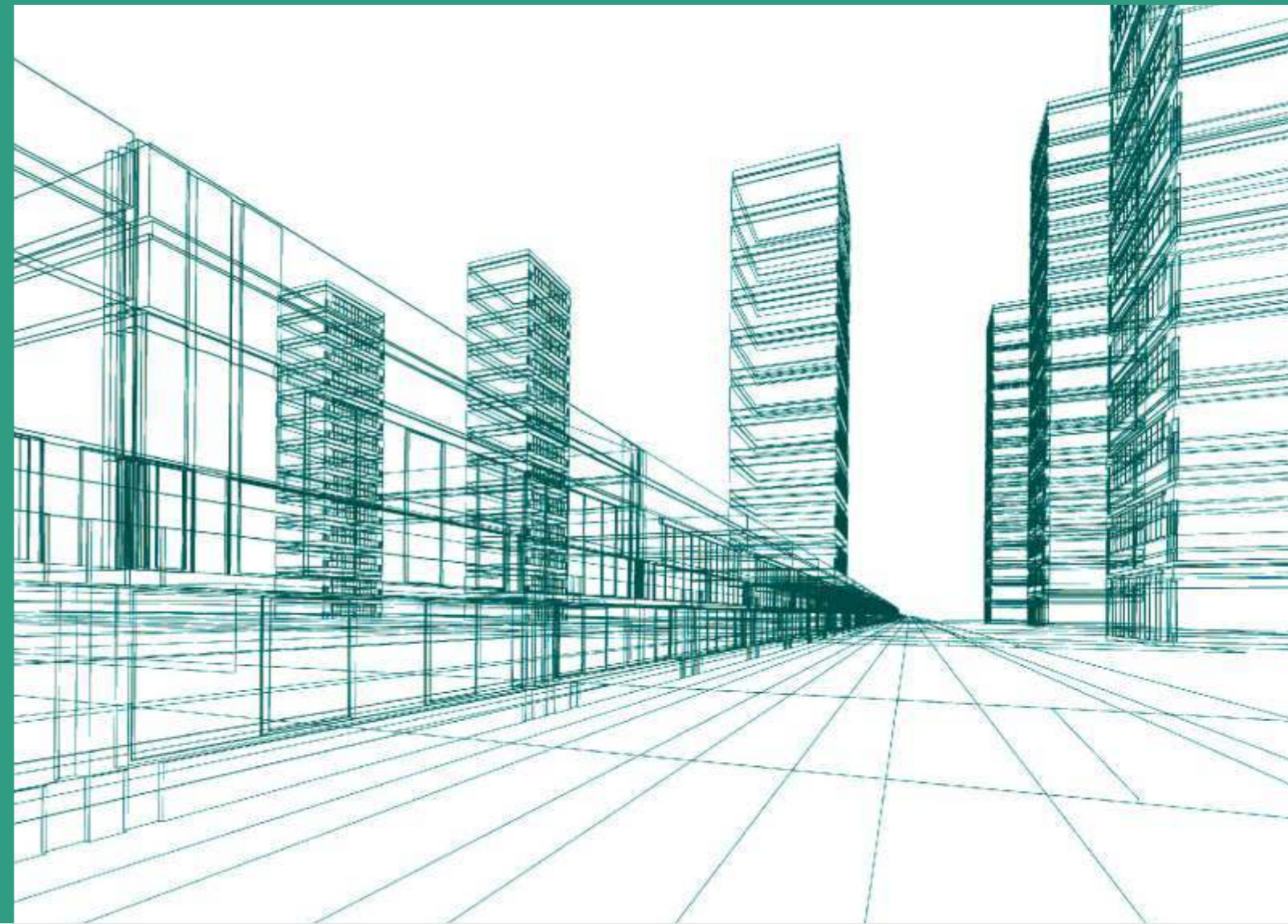
SHENZHEN JOABOA TECHNOLOGY CO., LTD

Add : Floor 16th, No.2 North Area, Excellence City Central Square, Melin, Futian Dist.,
Shenzhen, Guangdong, China

Tel : +86 0755 33052250 Fax: +86 0755 33052266 Zipcode: 518049

Website: www.joaboa.net Email: International@zhuobao.com

Ver:2019.10.31





CONTENTS

PART 1. Introduction of Water-based Floor Hardener System.....	/ 02 /
PART 2. Application Scope	/ 02 /
PART 3. System Advantages	/ 03 /
PART 4. Introduction of TWY-308 Water-based Floor Hardener.....	/ 04 /
PART 5. System Design Plan and Construction Technology.....	/ 05 /
PART 6. Acceptance Criteria	/ 06 /
PART 7. Notes.....	/ 06 /
PART 8. Transportation and Storage	/ 07 /
PART 9. Landmarks	/ 08 /
PART 10. Manufacturing Bases	/ 11 /

PART 1.

Introduction of Water-based Floor Hardener System

JOABOA Water-based Floor Hardener System is a type of high quality floor hardener system after years of efforts and technologic improvement, which can solve issues like loose concrete structure, easy to generate dust and cracks and short service life by significantly improving the intensity, hardness, permeability resistance and abrasion performance of the concrete.



PART 2.

Application Scope

- Applicable for new concrete surface, like: warehouses, factories, car parks, department stores, shopping malls, service stations, etc.
- Applicable for the renovation work of old floor hardener systems, especially for the repair work of old epoxy or carborundum floor hardener systems which have issues like sugaring, damages and pulverization phenomenon.

PART 3.

System Advantages

Carborundum Floor Hardener System



New after Construction



After a period

Epoxy Floor Hardener System



New after Construction



After a period

System Advantages

- Increase the intensity of previous substrate by 30%.
- After application, the Mohs Hardness of the concrete surface will reach 7 level or even more.
- The abrasive resistance of the concrete surface will be improved by 5 to 8 times than before.
- Greatly increase the concrete density, to seal the concrete surface, strengthen anti-pollution performance.
- The surface of the floor hardener system will look smooth and burnished, no sugaring and long lasting.
- Anti-slippery, water-based, thus environment-friendly, can be applied in food grade production bases.
- High fireproofing grade, non-flammable, moistureproof, etc.



PART 4.

Introduction of TWY-308 Water-based Floor Hardener

Product Introduction

TWY-308 water-based floor hardener is a permeable inorganic liquid, full with lithium and other active ions, which can deeply penetrate into the concrete. It will react with the incomplete hydration reaction active ingredients inside of the concrete and form into high-intensity inorganic meshy crystalline structure. Thanks to its excellent acid resistant, alkalis resistant, heat resistant and weather resistant performance, the service life of the floor hardener system will be greatly extended.



Executive Standard

Executive Standard: Q/FZ 001-2017

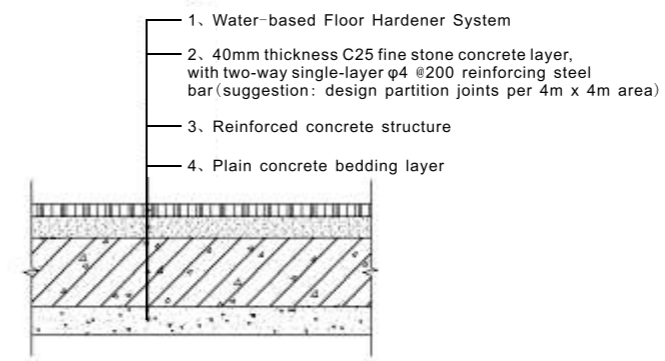
Test Items		Approval standard
PH	≥	11.0
Surface Water Absorption/mm (before and after construction) in 24 h,	≤	5
Reducing Rate of Surface Water Absorption/mm (before and after construction) in 24 h, ≥		80
Abrasion Resistance Ratio(than before), %	≥	500
Surface Hardness (Mohs Hardness),	≥	7
Compressive Strength Ratio, %	3d	≥ 110
	7d	≥ 120
	28d	≥ 130
Friction Coefficient, ≥		0.45

PART 5.

System Design Plan and Construction Technology

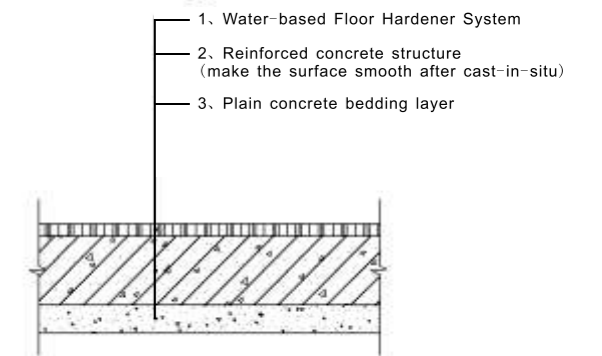
System Design Plan 1

Applied on fine aggregate concrete surface

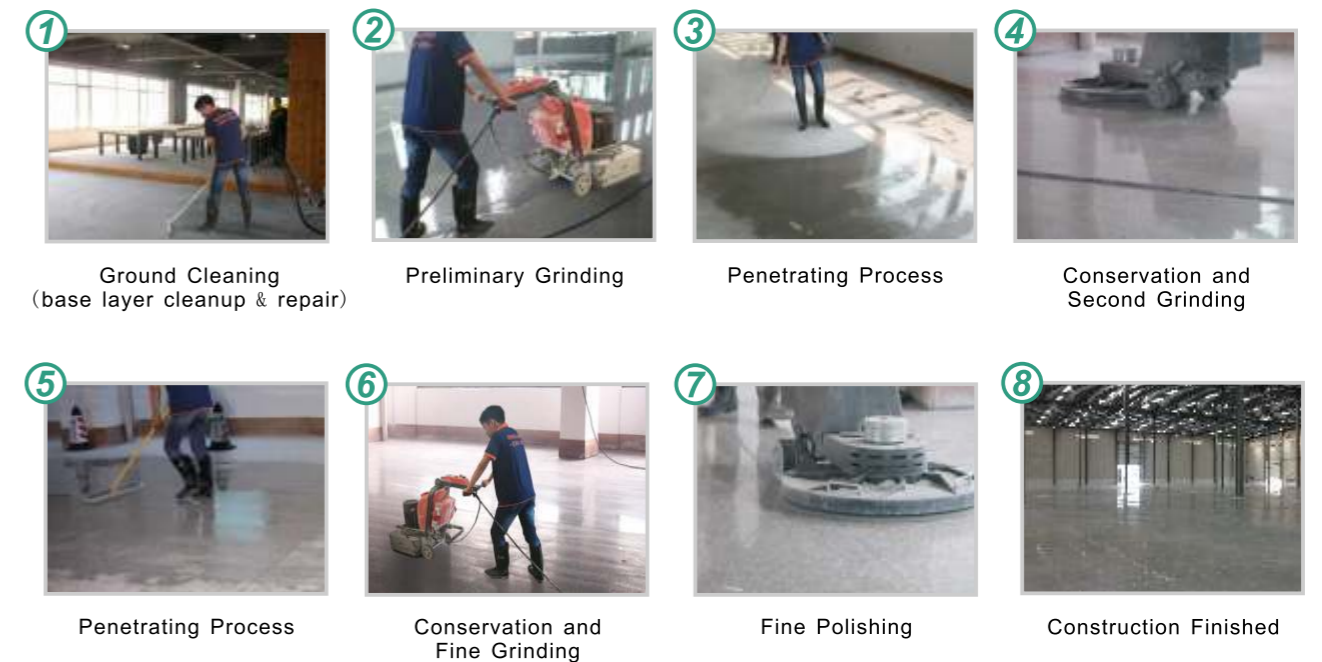


System Design Plan 2

Applied on plain concrete bedding layer



Construction Technology



PART 6.

Acceptance Criteria

- **Compressive Strength:** increased by 30% than former concrete base.
- **Surface Hardness:** reach 7-level Mohs Hardness or even higher after application.
- **Abrasive Resistance:** increased by 5-8 times than former concrete base.
- **Friction Coefficient:** ≥ 0.45
- **Flatness:** error value $\leq \pm 3\text{mm}$ tested by automatic level

PART 7.

Notes

- 1. Please do not mix TWY-308 with other liquid materials when using. The hardener agent can be used directly without dilution. If you spray accidentally on glass, marble, tiles, metal or other highly polished surface hardening agent, please clean them immediately with water, to avoid surface corrosion.
- 2. Can not be used in the gypsum base surface to avoid cracking damage. It is not recommended to use the hardener on a substrate surface that is often immersed with water or moisture, to avoid product failure.
- 3. The wear-resisting performance of floor hardener will be more obvious if used on C20 concrete substrate. When using on other level of concrete surface, please conduct a trial test first in a small area.

PART 8.

Transportation and Storage



- 1. The product is non-flammable and non-explosive materials, which can be transported in a normal way. During the transportation, please be prevent it from rain, squeeze, collision and keep the package in good condition.
- 2. The product should be stored in a ventilated and dry place. Prevent exposing to the sunlight. The storage temperature should be within 5°C to 35°C.
- 3. Shelf life: 12 months.

PART 9. Landmarks



The Number One Condominium
Jomtien Pattaya Phase 1



La Vista One



Lingnan Garden



Pattaya Palm Spring Villas Phase 1



Pattaya Plam Lakeside Phase 1



Morgan Tower



Tanzania National Stadium
—China's Key Foreign Aid Project



The Winter Olympics in Beijing Zhangjiakou
—The First Winter Olympics in China

PART 10. Manufacturing Bases



Shenzhen Bao'an International Airport
—The Largest Single Building in Shenzhen.



Ministry of Public Security Office Building
—Another Landmark in Tian'anmen Area



Tianjin Binhai International Airport



National Museum of China



Binhai Building of TECENT
—TECENT Global Headquarter Base



The First Affiliated Hospital of Zhengzhou University
—The Largest Hospital in the World



Wuhan Joaboa Technology Co.,Ltd



Suzhou Joaboa Technology Co.,Ltd



Tianjin Joaboa Technology Co.,Ltd



Chengdu Joaboa New Style
Building Materials Co.,Ltd



Foshan Toyu Building Materials Co.,Ltd



Hubei Joaboa Building Energy
Saving Technology Co.,Ltd



Huizhou Joaboa Technology Co.,Ltd

Joaboa Tech has invested USD 8,333,334 to set up an excellent self-adhesive membrane product line by introducing advanced facilities from American A&D company.

Joaboa Tech has formed industrial layout network the whole China first. With advanced facilities, strict QMS and excellent environmental facilities, Joaboa make sure good quality for it's products.