

LONGYAN HUISINS CHEMICAL INTERNATIONAL LIMITED**TDS (Technical Data Sheet)****Name: Polyaspartic Abrasion Resistance Floor Coating** HA8027

Customer: N/A
Customer P/N: N/A
Customer Desc: N/A

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Approved By: Sha LIU

Version History

Rev.	Status	Revision Description	Author/Approved	Date
A	Approved	Initial Release	Sha LIU	2022-01-18

Product name: polyaspartic abrasion resistance floor coating

Product code: HA8027

Product introduction

HA8027 is a two-component material with aliphatic polyaspartic polyurea resin as the main film-forming material, with excellent corrosion resistance, color-change resistance and weather resistance. The product has high solid and low viscosity, good leveling, and meets the requirements of environmental protection; it has excellent workability, can be applied by any application method, and can be cured at low temperature 0 °C in winter. The coating has excellent flexibility, wear resistance, impact resistance and chemical resistance. It is an ideal weather resistant and environment-friendly floor coating material.

Characteristic:

- * high solids low density, with good leveling, the coating film is tough, dense, full light and bright colors
- * high adhesive strength, good compatible with polyurethane, epoxy and other coating film.
- * high hardness, good scratch resistance and stain resistance
- * excellent abrasion resistance, impact resistance
- * excellent anticorrosion property, resist to acid, alkali, salt and others.
- * no discoloration, UV resistance, no yellowing, no powdering, aging resistance, with excellent weather resistance and gloss and color retention property
- * this product is environmentally friendly and contains no benzene solvents and lead compounds.

Application: Flooring of city Park Plaza, electronic plant, mechanical factory, chemical plant, pharmaceutical, food and other industrial floors, as well as various outdoor yellowing resistant and wear-resistant floors.

Product information

Item	A component	B component
Appearance	light yellow liquid	Color adjustable
Specific gravity	1.04	1.50
Viscosity (cps)@25°C	40-60	100-200
Solid content (%)	65	88
Mix ratio (by weight)	1	1
Tack-free time (h)	1	
Hard dry time (h)	3	
Pot life min (25°C)	40	
Theoretical coverage (DFT)	0.15kg/m ² film thickness 100μm	

Typical physical properties

Item	Test standard	Results
Pencil hardness	GB/T6739-2006	2H
Adhesion (concrete base)	HG/T 3831-2006	2.8MPa
Adhesion (metal base)	HG/T 3831-2006	9.3MPa
Bending resistance (cylindrical)	GB/T6742-2006	≤1mm
Impermeability	HG/T 3831-2006	2.1MPa
Abrasion resistance (750g/500r) mg	HG/T 3831-2006	5
Impact resistance	GB/T 1732	50 kg·cm
Anti-aging, artificial accelerated aging 2000h	GB/T14522-1993	Light loss < 1, pulverization < 1

Chemical resistance

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Acid resistance 30%H ₂ SO ₄ or 10%HCl, 240h	no rust, no bubbles, no peel off
Alkali resistance 30%NaOH, 240h	no rust, no bubbles, no peel off
Salt resistance 30g/L, 240h	no rust, no bubbles, no peel off
Salt spray resistance 1500h	no rust, no bubbles, no peel off
Oil resistance, 0# diesel, crude oil	no rust, no bubbles, no peel off
Waterproof, 48h	No bubbles, no wrinkled, no color-changing, no peel off

Note: the above chemical medium resistance performance is obtained according to the test method of GB / T9274-1988 and is only for reference. Pay attention to the influence of ventilation, splash and spillage. Independent immersion testing is recommended if requires other specific data

Processing recommendation

environment temperature	0~+35°C
humidity	≤85%
dew point	≥3°C

Application instructions

Hand brush, roller

Air spray, with air pressure 0.3-0.5 MPa

Airless spray, with spray pressure 15-20 MPa

Recommend dft: 100-200μm (topcoat)

Recoating interval: min 2h, max 24h.

Substrate Preparation

Concrete surface: Shall be sound, dense, flat, clean and dry. Free of sanding, delamination, cracks, honeycombing and pitting defects. Patching with putty is normally required.

Wood surface: Clean and dry, free of burrs, chips and loose fragments.

For substrate preparation of other materials, please consult HUISINS technical personnel.

Application tips

Thoroughly agitate Component B before application.

Mix components A and B strictly at the specified weight ratio and stir thoroughly.

Seal the package well after use to avoid moisture absorption.

Keep the application site clean and dry, forbidden to contact with water, alcohols, acids, alkali etc

Product cure time

Substrate temperature	Tack-free time	Foot traffic ready	Full cure
+10°C	2h	24h	7d
+20°C	1.5h	8h	7d
+30°C	1h	6h	7d

Note: the curing time is different with environment condition especially when temperature and relative humidity changes.

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Shelf life

Storage temperature of environment: 5-35°C

shelf life is from the manufacturing date and in sealed condition

Part A: 10 months Part B: 10 months

keep the package drum well sealed.

store in cool and ventilated place, avoid sunshine exposure.

Package: part A: 20kg/barrel, part B: 20kg/barrel.

Product health and safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Integrity declaration

HUISINS guarantee all technical data stated in this sheet are based on laboratory tests. Actual testing methods may vary due to different circumstances. Therefore please test and verify its applicability. HUISINS does not take any other responsibilities except the product quality and reserve the right of any modifications on the listed data without prior notice.