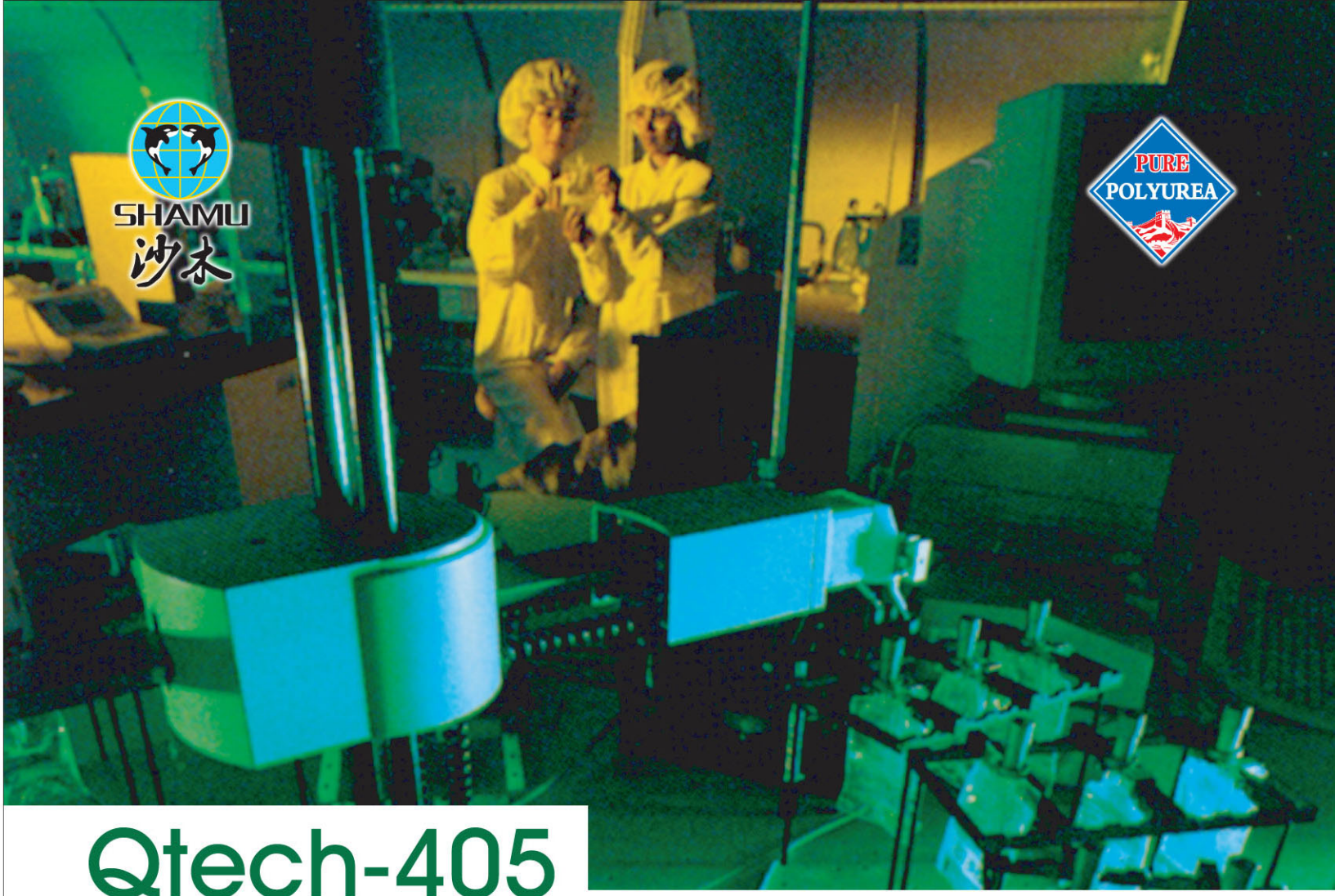

Qtech-405
ANTI-ELECTROSTATICS INDUSTRIAL FLOOR POLYUREA MATERIAL

Production Description

Qtech-405 Anti-Electrostatics Industrial Floor Polyurea Material is the state of the art 100% solids, ultra fast cure, flexible, spray-applied, high build, and two components aromatic pure polyurea elastomer. The system consists of A component, a quasi-prepolymer rich of free NCO, and B component, a mixture of polyetheramines, amine extenders and other additives. **Qtech-405** is used by itself or in combination with other materials to produce anti-electrostatics coatings, liners, wearing courses, and chemical resistant surface on concrete, metal and other substrates. **Qtech-405** can produce an extremely tough film at all thicknesses; it may be applied in all positions and to any suitably prepared substrate. **Qtech-405** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

Advantages

- Fast cure, short down time, no sagging
- Bondable and paintable to various kinds of substrates
- 100% Solids, No VOC's, Odorless, No Toxic Vapors
- Good resistance to a wide range of chemical attack
- Good weather ability, added color stability
- Excellent physiochemical properties
- Ambient insensitive, good thermal stability
- High elongation, no crack at alternate temperature
- Excellent anti electrostatic, skidding, impermeable and abrasion resistance
- Seamless, flexible, slick and non-porous

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Recommended Uses

Qtech-405 Anti-Electrostatics Industrial Floor Polyurea Material is an ultra fast cure system; it can be applied at thicknesses of several millimeters, or greater, in a single application. It can be widely used in mechanical equipment room's floorings, pharmaceutical clean rooms and processing areas, food and beverage handing and processing, hospital labs, operating and emergency areas; it can also be applied in stadium walkways, aisles, decks and stairs, gymnasium areas and so on.

Physical Properties

Tensile Strength/ MPa	16	Elongation/%	360
Tear Strength/(N/mm)	50	Shore Hardness	A92
Abrasion Resistance /(GB/T 1689-1998,cm^3/1.61km)	≤0.40	Impact Strength/(Kg.cm)	20
Adhesion /(Pull off, MPa)	5	Density/(g/cm^3)	0.95 ~ 1.05
Electrical Breakdown Strength/(Mv/m)	25	Chemical Resistance	No Corrosion, No Blister, No Spalling
Anti-Electrostatic	Excellent	Low Temperature Flexibility	No Cracking

Product Characteristic

Solids/%	100	VOC (calculated)	0
Gel Time/s	13	Tack Free/s	20~30
Shelf Life	6 months, unopened at 15℃~40℃	Flash Point/ ℃	>100
Mix Ratio V/V	1: 1	Recommended Thickness/mm	2~3mm
Colors	Optional		

- Drying time is temperature, humidity, and film thickness dependent.

Chemical Resistance

- Consult our technicist and chemical test data for corrosive environment applications.

Installation

- Consult our application information and recommended method statements.

Packaging

- Part A: 220 kilogram per drums.
- Part B: 200 kilogram per drums. (Custom package available at additional charge)

Notes

- Qtech product is intended for industrial use by properly trained professional applicators only.
- Thoroughly mix container of B component with an air-driven power mixer for a minimum of 15 minutes prior to application.
- Adding a nitrogen blanket is strongly recommended for use on the A component for storage after opening.
- It is a 100% solids production, strictly prohibit add any diluents.
- The quality and fitness of the product is depending upon the proper mixture and application of the component by the applicator.
- This specification is an accumulation of long term testing and experience. Published technical data and instructions are subject to change without notice.

Innovation is our daily work. The latest specification could be updated and downloaded at www.shamu-intl.com.

SHAMU 沙木

Qingdao Shamu International Trade Co., Ltd.

■Add: Room 2606, Building B, Wanda Plaza, 33 Lianyungang Road, Qingdao, CHINA
■Tel:+86-532-55662106 ■Fax:+86-532-55662107
■E-mail:info@shamu-intl.com ■http://www.shamu-intl.com