

Qtech-407 Anti-Microbial Polyurea Material PRODUCTION INFORMATION

Production Description:

Qtech-407 Anti-Microbial 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-407** has been chemically engineered to inhibit the growth of a broad range of micro-organisms such as gram-negative and gram-positive bacteria, fungi and select viruses, so it will not wash or wear off or lose its biostatic properties after installation. **Qtech-407** can produce an extremely tough film at all thicknesses; it may be applied in all positions and to any suitably prepared substrate. **Qtech-407** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions. It is the optimum choice where a tough, flexible, anti –microbial surfacing system which exhibits extraordinary performance.

Advantages :

- 1. Fast cure, short down time, no sagging
- 2. Excellent Anti-microbial and Mildew Proof Properties
- 3. Bondable and paintable to various kinds of substrates
- 4. Ambient insensitive, good thermal stability
- 5. 100% Solids, No VOC's, Odorless, No Toxic Vapors
- 6. Good resistance to a wide range of chemical attack
- 7. High impact and abuse resistant-replaces fiberglass and FRP
- 8. Good weather ability, Added color stability, no chalking
- 9. Seamless, flexible, slick and non-porous
- 10. Bridge moving cracks to 1/16"

Recommended Uses:

Qtech-407 Anti-Microbial Polyurea Material is an ultra fast cure system; it can be applied at thicknesses of several ten millimeters, or greater, in a single application. It can be widely used in:

- Clean Room Walls Ceilings and Floors
- Food and Beverage Processing Areas
- Pharmaceutical Facilities
- Hospital and Research Facilities
- Lavatories
- Correctional Facilities







Physical Properties:		
Tensile Strength/ MPa		17.5
Elongation/%		400
Tear Strength/(N/mm)		55
Shore Hardness		A80
Abrasion Resistance /(GB/T 1689-1998, cm ³ /1.61km, mg)		≤0.35
Impact Strength/(Kg.cm)		20
Anti-Microbial Rate/%		99.9
Adhesion (Pull off, MPa)		≥2.5
Density/(g/cm ³)		$0.95 {\sim} 1.05$
Product Characteristics:		
Solids/%	100	
VOC (calculated)	0	
Gel Time/s	11	
Tack Free/s	20~30	
Shelf Life	6 months, unopened at 15~40 °C	
Flash Point/ °C	150	
Mix Ratio V/V	1:1	
Recommended Spreading Thickness/mm	2~3	
Colors	Optional	
Drying time is temperature, humidity and film thickness dependent		

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Chemical Resistance:

Consult our technicist and chemical test date for corrosive environment applications.

Installation:

Consult our application information and recommended method statements.

Packaging:

Part A: 220kilogram per drums.

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



Notes:

- 1. Qtech product is intended for industrial use by properly trained professional applicators only.
- 2. Thoroughly mix container of B component with an air-driven power mixer for a minimum of 15 minutes prior to application.
- 3. Adding a nitrogen blanket is strongly recommended for use on the "A" component for storage after opening.
- 4. It is a 100% solids production, strictly prohibit add any diluents.
- 5. The quality and fitness of the product is depending upon the proper mixture and application of the component by the applicator.
- 6. This specification is an accumulation of long term testing and experience. Published technical data and instructions are subject to change without notice.
- 7. For more information please contact us or visit our website www.shamu-intl.com and www.polyurea.cn.