

Qtech-400 High Speed Railway Sub Grade Polyurea Protective Coating

PRODUCTION INFORMATION

Production Description:

Qtech-400 High Speed Railway Sub Grade Polyurea Protective Coating 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-400** is used by itself or in combination with other materials to produce protective coatings, liners, wearing courses, and resilient surface on high speed railway sub grade and other substrates. **Qtech-400** can produce an extremely tough film at all thicknesses; it may be applied in all positions and to any suitably prepared substrate. **Qtech-400** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions. It is the optimum choice where a tough, flexible, impact resistant, abrasion resistant, anti-corrosion, waterproof surfacing system which exhibits extraordinary performance characteristics.

Advantages :

- 1. Fast cure, short down time, no sagging
- 2. Excellent Physiochemical 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. Anti-corrosion, Skidding resistance, Impermeable, Abrasion resistant
- 8. Good weather ability, Added color stability
- 9. Seamless, flexible, slick and non-porous
- 10. No chalking and fading in long-term use outdoors

Recommended Uses:

Qtech-400 High Speed Railway Sub Grade Polyurea Protective Coating 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 High Speed Railway Sub grade; it can also be applied in: Sea-Crossing Bridge, Sub-Sea Tunnel, Urban Metro, High-Grade Building, Marine Drilling Platform, Marine Steel Structure, Stadium stand, Industrial Facilities and so on.







Physical Properties:		
Tensile Strength/ MPa		16
Elongation/%		400
Tear Strength/(N/m)		60
Shore Hardness		≥A90
Abrasion Resistance /(GB/T 1689-1998, cm ³ /1.61km, mg)		$\leqslant 0.5$
Impact Strength/ (Kg.cm)		50
Water Absorption/%		≤5
Friction Coefficient		0.85~0.96
Adhesion/ (Pull off, MPa)		≥2.5
Density/ (g/cm ³)		0.95~1.05
Product Characteristics:		
Solids/%	100	
VOC (calculated)	0	
Gel Time/s	10	
Tack Free/s	20~30	
Shelf Life	6 months, unopened at 15~40 °C	
Flash Point/ °C	>100	
Mix Ratio V/V	1:1	
Recommended Thickness/mm	2~3	
Colors	Optional	

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

Chemical Resistance:

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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.