



Qttech-406 Elastomer Waterproofing Material

PRODUCTION INFORMATION

Production Description :

Qttech-406 Elastomer Waterproofing Material is originally designed to apply over concrete and its advanced elongation is suitable for bridging stress cracks in concrete and other substrates. **Qttech-406** is the state of the art 100% solids, ultra fast cure, flexible, spray-applied, high build, two component 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. With high elongation value, **Qttech-406** has great memory, It can be used waterproofing and can be applied on geotextiles fabrics. **Qttech-406** can produce an extremely tough film at all thicknesses; it may be applied in all positions and to any suitably prepared substrate. **Qttech-406** 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 waterproofing 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. Excellent Skidding Resistant, Anti-corrosion and Waterproof Properties
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:

Qttech-406 Elastomer Waterproofing 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:

- Liner for aquarium, ponds, lagoons, reservoirs, irrigation ditches etc
- Metal, concrete, wood, and foam roofing
- Underground engineering
- Buried earthen containment lining (with or without geotextiles)
- New or existing sub-grade slabs, walls, etc
- Truck bed and undercarriage liner
- Water & wastewater linings

To requirement of semi-gloss surface and avoiding shine eye, the cure time can be accelerated to obtain evenly orange peel apparent by directly spraying.



Physical Properties:

Tensile Strength /MPa	15
Elongation/%	500
Tear Strength/(N/mm)	55
Shore Hardness	A-80
Adhesion /(Pull off, MPa)	3
Density/(g/cm ³)	0.95~1.05
Abrasion Resistance /(GB/T 1689-1998, cm ³ /1.61km, mg)	0.35
Moisture Vapor Transmission	0.002 perm
Impermeability(0.3MPa/30min)	Impervious
Chemical Resistance	No corrosion, No Blister, No Spalling
Low Temperature Flexibility	No Cracking

Product Characteristics:

Solids Content/%	100
VOC	0
Gel Time/s	9
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 Spreading Thickness/mm	2~3
Colors:	Optional

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

Chemical Resistance:

Consult our technician and chemical test data 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.