

Qttech-417 Police Device Protective Polyurea Material PRODUCTION INFORMATION

Production Description :

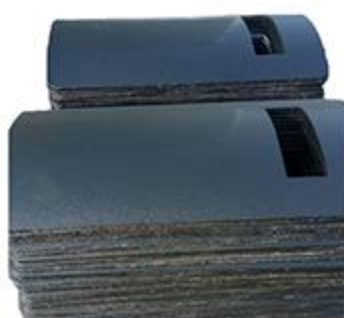
Qttech-417 Police Device Protective Polyurea Material is independently developed by Qingdao Shamu Advanced Material Co., Ltd., The system consists of A component, a quasi-prepolymer rich of free NCO, and B component, a mixture of poly-amine, amine extenders and other additives. **Qttech-417** is used by itself or in combination with other materials to produce decorating coatings, liners, wearing courses, and resilient surface on helmet, ballistic board and body armor. **Qttech-417** is seamless, ultra-high strength, high-elongation, impact resistant, anti-corrosion, and aging resistance. **Qttech-417** can produce an extremely tough film at all thicknesses; it may be applied in all positions and to any suitably prepared substrate. **Qttech-417** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions. It's easy to apply and provides an aesthetically pleasing form of fire protection for buildings and house owners.

Advantages :

1. Fast cure, short down time, no sagging
2. Excellent Physiochemical Properties
3. Ultra High-Strength and High-Elongation
4. Bondable and paintable to various kinds of substrates
5. Ambient insensitive, excellent decorating ability and weather stability
6. Easy to apply with commercial airless sprayer
7. No expensive application equipment needed
8. Eco-friendly, No VOCs Non toxic
9. Seamless, flexible, slick and non-porous

Recommended Uses:

Qttech-417 Police Device Protective 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 as a decorating coating in helmet, ballistic board and body armor.



Physical Properties:

Tensile Strength/ MPa	≥20
Elongation/%	≥380
Tear Strength/(N/mm)	≥70
Shore Hardness	≥88A
Abrasion Resistance /(GB/T 1689-1998, cm ³ /1.61km, mg)	≤0.036
Impact Strength/ Kg.cm	50
Ratio/volume	1:1
Density/(g/cm ³)	1.05

Product Characteristics:

VOC (calculated)	0
Gel Time/s	8~15
Tack Free/s	60s
Shelf Life	12 months, unopened at -10~40 °C
Mix Ratio V/V	1: 1
Recommended Spreading Thickness/mm	1~3
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 drum.

Part B: 200 kilogram per drum. (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 40 minutes prior to application.
3. Adding a nitrogen blanket is strongly recommended for use on the "A" component for storage after opening.
4. The quality and fitness of the product is depending upon the proper mixture and application of the component by the applicator.
5. This specification is an accumulation of long term testing and experience. Published technical data and instructions are subject to change without notice.