



# KUT DURATHANE 200

## Cold Applied, High Performance, Polyurethane Runway Sealant

JOS – 04 - 0104

### DESCRIPTION

**KUT DURATHANE 200** is a cold applied, pitch free, two part polyurethane joint sealant. It is designed for joints in concrete paved areas to accommodate cyclic movements throughout extremes of temperature conditions. **KUT DURATHANE 200** is resistant to fuel, jet fuel, oil and hydraulic fluid spillage, will not harden in cold weather nor become excessively soft or pick up in hot conditions. **KUT DURATHANE 200** has high durability and long service life which significantly reduces maintenance costs.

### USES

**KUT DURATHANE 200** is used for sealing joints in concrete roads, concrete runways and hard standings. The excellent fuel resistance of **KUT DURATHANE 200** makes it particularly suitable for sealing areas where fuel and oil spillage might occur such as:

- Aircraft fuelling areas
- Oil terminals
- Garage forecourts
- Parking and cargo areas
- Docks and harbours
- Warehouses

### ADVANTAGES

- Pitch free - environmentally friendly
- Cold applied - no heating equipment required
- Fuel, oil and hydraulic fluid resistant
- Self-leveling
- Tough rubbery seal
- High performance - less maintenance
- High movement accommodation

### STANDARDS

**KUT DURATHANE 200** complies with U.S. Federal Specification **SS-S-200E:1984** and **BS 5212:1990** - Types N, F and FB.

### TYPICAL PROPERTIES

| PROPERTIES                             | KUT DURATHANE 200   |
|--|---|
| Form                                   | Two part compound<br>Base compound: viscous liquid<br>Curing agent: liquid                        |
| Colour                                 | Black   |
| Movement Accomodation Factor (BS 6093) | Butt Joints 25%   |
| Physical or Chemical cure              | Chemical cure   |
| Setting Time                           | After 10 to 16 hours @ 35°C<br><b>KUT DURATHANE 200</b> will be tack free and can accept traffic. |
| Hardness Shore A @ 25° C               | 15 ± 5  |
| Application conditions at site         | To avoid Unacceptably prolonged temperature cure times, do not apply at temperatures below 5°C    |
| Solid content                          | 100%  |
| Mixed density                          | 1.35 kg/ litre  |
| <b>Occasional Chemical Spillages</b>   | <b>Resistance</b>   |
| Aviation fuels                         | resistant   |
| Hydraulic fluids                       | resistant   |
| Skydrol                                | resistant   |
| Kerosene                               | resistant   |
| Petrol                                 | resistant   |
| Diesel fuels                           | resistant   |
| Synthetic oils                         | resistant   |
| Mineral oils                           | resistant   |
| White spirit                           | resistant   |
| Mid alkalis                            | resistant   |
| Dilute acids                           | resistant   |

### APPLICATION

#### Joint preparation

Joint sealing slots in concrete should be accurately formed and must be dry, sound, clean and frost free.



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Remove all dust and laitance by grit blasting or grinding. Avoid polishing the joint sides when grinding. The prepared sealing slot should be blown out with dry, oil-free compressed air.

Ensure that any expansion joint filler is tightly packed in the joint and at the required depth to provide the seal dimensions specified. Before sealing, insert a bond breaker held tightly into the base of the sealing groove to prevent the sealant

### Priming

**KUT DURATHANE 200** is self priming, no primer is required on the joint surfaces.

### Mixing

**KUT DURATHANE 200** is a two component system. Drain the contents of the tin containing the curing agent (Part B) into the large base (Part A) component tin. Using a hand held, slow speed drill (400 to 500 rpm) fitted with a paddle, mix for approximately one minute, stop the mixer and scrape around the top of the tin to remove any remaining curing agent. Continue mixing for a further 3 minutes until the material is thoroughly mixed. The pot life of mixed **KUT DURATHANE 200** is influenced by temperature. Consult **ASPEC** Technical Department for additional information.

### Application Instructions

Use **KUT DURATHANE 200** self leveling, Pourable grade sealant. When mixed, the sealant may be loaded into a Gun. In wider joints of 25 mm and above, the mixed sealant may be poured directly from the tin by bending the side to form a pouring lip. Apply mixed sealant into the joint so that the finished level of the seal is recessed below the trafficked surface as specified.

**BS 5212:1990** Part 2 sets out a code of practice for the application and use of joint sealants for concrete pavements.

### Clean up

Immediately after use and before sealant has cured, clean equipment with **KUT SOLVENT PU** or **PS**. Cured Sealant may be removed by cutting with a sharp-edged tool & thin films by abrading.

### Curing

**KUT DURATHANE 200** cures by a chemically controlled reaction. Initial cure is within 24 hours, and complete cure takes approximately 7 days. Cure rates are dependent on temperature and humidity.

## PRECAUTIONS

- Do not open containers until ready for use.
- **KUT DURATHANE 920** is packed in premeasured units; do not use part mixes.
- **KUT DURATHANE 920** should not come in contact with oil-base sealants, silicone sealants, polysulphides, or fillers impregnated with oil, asphalt, or tar.
- Do not allow uncured sealants to come into contact with alcohol-based materials or solvents.
- Do not apply epoxy-based coatings in the vicinity of uncured **KUT DURATHANE 200**.

## PACKAGING AND COVERAGE

"**KUT DURATHANE 200**" is available in 5 litre cans.

| Joint size<br>in mm (w:d) | Litre per<br>meter | Meter per<br>5.0 litre pack |
|---------------------------|--------------------|-----------------------------|
| 10 x 10                   | 0.100              | 50.00                       |
| 13 x 13                   | 0.169              | 29.58                       |
| 15 x 15                   | 0.225              | 22.22                       |
| 20 x 15                   | 0.300              | 16.66                       |
| 20 x 20                   | 0.400              | 12.50                       |
| 25 x 20                   | 0.500              | 10.00                       |
| 25 x 25                   | 0.625              | 8.00                        |
| 30 x 25                   | 0.750              | 6.66                        |

## STORAGE

"**KUT DURATHANE 920**" in original sealed containers when kept in dry conditions at 5° C - 27° C has a shelf life of 12 months.

## HEALTH AND SAFETY

**KUT DURATHANE 200** may cause skin, eye or respiratory irritation, may cause allergic responses. Ingestion may cause irritation. Intentional misuse by deliberately inhaling the contents may be harmful or fatal. Keep out of the reach of children.

Wear suitable protective gloves and eye/face protection. In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. Hands must be thoroughly washed with soap and water before eating or smoking. Remove and wash contaminated clothing. If inhalation effects occur, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if swallowed, **seek immediate medical attention**. Cured sealant should not be burned off due to generation of toxic fumes. Empty containers should be disposed off in accordance with waste disposal regulations.

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