



QUICSEAL 200

Fuel Resistant Pitch Free Concrete Pavement Joint Sealant

Description

QUICSEAL 200 is a cold applied two-part pitch free self-leveling elastomeric sealant designed to effectively seal all joints in concrete paved areas. The sealant has been formulated to accommodate repeated and pronounced cyclic movements in extremes of climatic conditions.

QUICSEAL 200 is resistant to fuel, oil, skydrol spillage and hydraulic fluid. It will not become excessively soft or pick up in hot conditions.

Specification Compliance

- BS 5212: 1990 Types N, F, and FB
- US Fed Spec SS-S-200E:1993

Advantages

- Pitch free
- Cold applied – no heating equipment required
- Fuel, oil and hydraulic fluid resistant
- Simple to mix and apply – self-leveling
- High movement accommodation
- Primer system for asphalt surfaces

Typical Uses

- For sealing joints in concrete pavements on:-
- Roads and runways
- Airport hardstandings, parking aprons subject to fuel spillage
- Concrete wharf areas
- Cargo and oil terminals
- Forecourts and car park decks

Product Description

Form	:	Polyurethane
Solids Content	:	100%
Color	:	Black
Application temperature	:	5°C to 35°C
Tack free time	:	4 - 6 hours
Viscosity	:	5000 – 6500cps
S.G.	:	1.4 ± 0.02

Technical Data

Service Temperature	-20°C to 70 °C
Setting time	Trafficable after 24 hrs. Full cure in 4-5 days at 20°C
Hardness (Shore A)	10 – 18
Movement Accommodation Factor (BS 6093)	30%
Loss of volume	<4.5%
Change in mass and volume after	<-18%
Immersion in liquid chemicals (EN 14187-4)	<-27%
Resistance to hydrolysis	
Shore A hardness % (BS EN 14187-5)	+10%
Tensile Strength ISO 2782-3	>1.0Mpa
Elongation (ISO 2782-3)	>400%
Adhesion – Concrete (EN 1542)	>1.0Mpa
Adhesion – Asphalt EN 1542)	>0.6Mpa
Elastic recovery (BS EN ISO 73892)	80 – 95%
Artificial weathering (EN 14187-8)	+10%
Adhesion/cohesion properties after immersion in liquid chemicals (EN 14187-6)	No failure
Chemical resistance (ASTM D1308)	Dilute Acids Dilute Alkalis Aviation fuels Diesel fuels Kerosene Hydraulic fluids Skydrol White spirit Petrol

Joint Preparation

Joints should be accurately formed and prepared to provide the correct sealing slot dimensions. The degree of performance efficiency obtained with any sealant depends on the thoroughness of joint preparation.

Joint sealing slot surfaces must be dry, sound, clean and free from frost. Remove all dust and laitance by grit blasting, grinding or rigorous wire brushing. 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 removed to the required depth to provide the seal dimensions specified. Make sure that no gaps or voids exist at the base of the joint.

Joint fillers must either be separated by **QUICSEAL 404**, closed cell polyethylene backer rod or vinyl tape. However, joints caulked with **QUICSEAL 406**, closed cell polyethylene expansion joint filler will not require a separate bond breaker as it is compatible with **QUICSEAL 200**.

Priming

Prime the walls of the sealing joint with **QUICSEAL 200 PRIMER** and allow between 30 minutes to 2 hours to be touch dry. After 2 hours, any primed surfaces must be re-primed before applying sealant. Therefore avoid priming more areas that can be sealed in a 2-hour period, to avoid unnecessary re-priming work. The mixed **QUICSEAL 200** should be applied when the primer is tack free. Alternative primer systems are available for asphalt surface. Consult **QUICSEAL** technical service.

Mixing

Stir Part A (base compound) well using a paddle type stirrer for about 5 minutes.

Drain the contents of Part B (liquid curing agent) into the stirred Part A (base compound) tin while mixing. Mix thoroughly for 4 minutes using a slow speed drill (300rpm) fitted with a paddle type stirrer.

Note: Do not use partial quantities of the parts as this may produce incorrect mix ratio between part A & B, which could result in incomplete curing of **QUICSEAL 200**.

Application

Apply by caulking gun, hand or pressure type, or pour from container. Care should be taken to ensure that the sealant applied is recessed in the joint to prevent the sealant from extruding above the level of the concrete pavement during the movement cycles.

Quantity Calculations

Joint size (mm)	Metres per 10 litres tin
10 x 10	100
12 x 12	69.4
15 x 15	44.4
20 x 20	25.0
25 x 25	16.0
30 x 25	13.4

Packing

10 litre per set

Sealant Depth

The sealant depth is dependent on the joint width and is calculated using the formula:

$$\text{Sealant depth} = \frac{\text{Joint width}}{3} + 6\text{mm}$$

Storage

The shelf life for QUICSEAL 200 in unopened & undamaged packaging is 12 months if stored between 5-25°C. The product must be kept unopened & store under cool condition and protected from direct sunlight.

Health & Safety

Avoid skin contact and apply a suitable barrier cream or wear disposable rubber or plastic gloves. Hands should be thoroughly washed before eating. In the event of contact with the eyes, wash liberally with clean cold water and seek medical advice.

Important Notes

The information set forth herein is furnished in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact QUICSEAL

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