



Ancillary materials, equipment & fittings
For all types of tunnelling

Tunnelling Accessories Ltd
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TA200 BUTYL SEALING STRIP

Developed after requests for a better and more complete product for sealing manhole sections, slabs and culvert units thus eliminating the necessity for concrete surround.

Products traditionally used are normally based on bitumen which lacks temperature stability becoming very hard and difficult to work in cold weather. TA200 being based on Butyl rubber, is temperature stable between -18°C and +70°C. This enables the product to be supplied in a softer consistency making for a very good seal which will neither soften more in hot weather or become harder in the cold.

When used for sealing manholes no primer is required. An adhesive is supplied for use with box culverts.

Being packaged on reels it is easy to apply and there is less waste than sealing strip that is supplied in short lengths, normally only 1 joint per manhole ring is required to be made.

TA200 is non-biodegradable and is completely resistant to the acids, alkalis and salts found in ground water.

A detailed list of physical properties and an application guide is enclosed and should you wish a Representative to call please do not hesitate to contact us.

DESCRIPTION: A non-staining, non-shrinking, strip-form sealant based on butyl rubber for sealing between normal building materials when the seal will be held in compression. It provides a waterproof, dustproof, flexible seal which can be painted and which will accommodate a movement of approximately 20% in shear. In Civil Engineering it is used for sealing joints in tunnel segments, manholes, shaft sections,

Box culverts and as a secondary seal for jointing concrete jacking pipes. It is available in various sizes in both circular and rectangular sections.

Directors: P.J.Benford, D.J Morgan, S.J.Benford (Secretary)

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SPECIFICATION:

Type: Butyl rubber based extruded strip-form Sealant
Colour: Black

Specific Gravity: 1.6 Approximately

PROPERTIES:

Location: Internal and external

Moisture vapours permeability: Low

Slump characteristics: Non-Slump

Resistance to:

Water: Good
Chemicals: Good - to acids, alkalis and salts found
In ground water

Sunlight and UV: Good

Humidity: Good

Detergents and soap: Good

Temperature Range: -18oC to +70oC during application and
Service

Weathering: Retains flexibility for many years

Ageing: Very good

Biological Attack: Very good - non bio-degradable

STORAGE: TA200 Sealant should be stored between 5 to 30oc

SHELF LIFE: At least 12 months from date of manufacture

PACKAGING: Supplied on reels and packed in cartons containing one to ten
reels depending on Section. No charge is made for cartons
and reels which are non-returnable.



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HEALTH AND SAFETY:

Composition:	Mineral Filler, Inert Polymers Synthetic Rubber
Fire Hazard:	None
Health Hazard:	None
O.E.S:	N/A
Protective measures When handling:	Nil

Every endeavour has been made to ensure that the information given herein is true and Reliable but it is given only for the guidance of our customers. The Company cannot accept responsibility for loss or damage that may result from the use of the Information, due to the possibility of or working conditions and of workmanship outside our control.

As TA200 has a temperature range between -18oC to +700C during application and service it can be used both in extreme hot and cold weather conditions.

TA200 meets the requirements of the following authorities:

"Water Authorities Civil Engineering Specification for the water industry (3rd Edition 1989)"

"Scottish Development Department and DoE Northern Ireland Standard Specification For water and Sewerage Schemes 1979"

"DTp specification for Highway Works 1986"

"The Building Regulations 1985"

"BS 8005 (Sewerage) 1987"

"BS 8301 (building Drainage) 1985"

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Available Section Sizes of TA200 and their application

Circular Manhole and inspection Chamber Joints

Nominal internal diameter (mm)	Size (mm)
600, 675, 750	50x 6
900,1050	60 x 12 or 20 x 20
1200, 1350, 1500, 1800	75 x 12 or 40 x 20
2100, 2400, 2700, 3000	120 x 12 or 40 x 20

Rectangular Manhole and inspection Chamber Joints

Nominal Internal Dimensions (mm)	Size (mm)
600 x 450, 750 x 600	50 x 6
1000 x 675, 1200 x 750	60 x 12
1475 x 1025	75 x 12
Box Culverts	40 x 25 25 x 20
Tunnel Segments	40 x 3 17 x 10 25 x 6
Secondary Seal - Jacked Pipes	25 x 12 30 x 20
Caisson Rings	25 x 12

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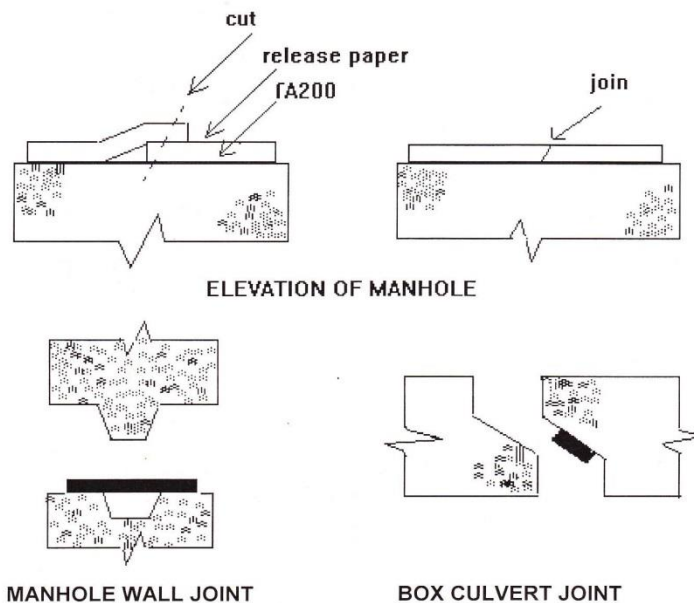
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TA200 APPLICATION GUIDE

Remove any concrete dust and dirt with a stiff brush. Any surface moisture should be removed with a gas torch.

On horizontal surfaces, e.g. manholes, no priming is necessary. On vertical surfaces e.g. box culverts, a suitable adhesive is supplied. The adhesive is applied to the surface of the concrete by brush and allowed to dry. Length of time to dry depends upon ambient temperature but on average is approximately 10 minutes, TA200 makes an instant bond. TA200 is placed in a position with the release paper left on. A joint is made by overlapping the strip by approximately 30 mm. A cut is made at an angle of approximately 60 degrees by use of a heated knife or trowel, the spare material is removed and the cut ends are immediately pressed together.



For use with tunnel lining segments apply adhesive to the trailing circumferential joint and an adjoining radial joint. TA200 is applied to both joints, wrapped around the corner with the ends cut approximately 3 mm longer than the segment to ensure a good joint at the corners. The protective paper should be left in place and only removed before placing the segment into position in the tunnel.

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