
GB 87 BOSTIK 22 DS 100 SILICONE HIWAY SEALANT NONSLUMP GRADE**GB 88 BOSTIK 22 DS 102 SILICONE HIWAY SEALANT FLOW GRADE**

DESCRIPTION

Bostik 22DS100 and 22DS 102 are single component, Low modulus Silicone based sealing compounds specifically designed for the sealing of concrete expansion joints requiring optimal movement tolerance, unsurpassed tear resistance and resistance to cut growth, and high UV and chemical resistance. It is available in concrete grey and is supplied in ready to use 600 ml foil sausages suitable for hand gun application, as well as bulk packing.

FEATURES

- Single component, convenient foil – sausage packing.
 - Excellent adhesion to concrete substrates (primer may be necessary - test first)
 - Tough, elastic permanently flexible rubber when cured
 - Low modulus, with outstanding tear resistance
 - Unaffected by industrial waste gas, water and salt water, alcohols, petrol, diesel, oil, jet fuels etc
 - Excellent UV and sunlight resistance; excellent colour fastness
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**USES**

Designed for permanent sealing of expansion joints in:

- Concrete Highways
- Concrete bridge expansion joints
- Concrete Airport runways, taxiways, aprons and parking areas.
- Concrete parking decks and storage areas.

Note : We always recommend the use of a primer before application. The correct primer is Pekay G783, one part primer, available in packs of 1 litre. It is the applicators responsibility to determine whether or not a primer will be used.

APPLICATION DETAILS

SURFACE PREPARATION

Ensure that the joint surfaces are dry and clean and free from dust and grease. When necessary degrease metal surfaces with Pekay solvent C 411. Remove residues of mortar or cement mechanically.

Primer G783 should be brush applied and allowed to air-dry before sealing.

Where appropriate, pre-fill joints with a polyethylene foam backup strip to give the required joint depth for the sealant. Materials containing oil, tar or bitumen, also hemp and mineral wool are unsuitable as joint fillers.

Sealant should be applied between 5°C and 35°C.

APPLICATION

Insert backup strip to the required depth, preferably using a set shape or depth gauge to maintain even depth.

Pierce the membrane at the end of the sausage, place it in the long-barreled applicator and screw on the cap and nozzle. Apply the sealer evenly, and ensure there is a concave shape to the joint (sealant must not bulge out of the joint). Smooth down the sealant bead, when necessary, using a spatula or similar tool which has been dipped in water containing a little dishwasher detergent. Flow grade should be applied in the same way using an applicators gun, but no smoothing is necessary. Where bulk packing is being extruded, ensure a close fit between the drum and the follower plate.

Joint Design Considerations

For conventional construction joints subject to movement it is important that the dimensional proportions of the joints are correct. These should be :-

Width	Depth
6-8 mm	6 mm
8 mm	8 mm
10 mm	10 mm
15 mm	10 mm
20 mm	12 mm
25 mm	15 mm
30 mm	15 mm

The total amount of movement expected is calculated as a function of temperature, the coefficient of expansion of the concrete, and the length of the concrete panels.

Joints must be chamfered to a minimum of 2mm to prevent spalling of the concrete.

Cure Time : 24 hours at 23°C/50% RH for a 2 mm thick sealant section but varies according to sealant thickness, ambient temperature and relative humidity. Traffic should be kept off the joint for at least 3 days after sealing.

Coverage : Determine the cross-sectional area of the joint , then calculate from the formula :-

600

----- = metre run per sausage
Cross sectional area in mm²

SPECIFICATIONS

Base	Silicone prepolymer
Form	Non-slump paste (22DS100), Free-flowing paste (22DS102)
Odour	Slight acrid sweet smell, caution: toxic compounds used in the formula
Solids content	98 % min, maximum shrinkage 5%.
Flammability	Non-flammable
SG	1,35 approx
Temp. resistance	-20°C to + 100°C.
Tear Strength	(ASTM D 624) approx 7kg per cm
Hardness	17° Shore A
Elongation	(DIN 53504) > 850 %
Tensile strength	(DIN 53504) > 15 kg / cm ²

GENERAL

Packaging	600 ml foil sausage pack, bulk packing 20 litres
Storage	Store in dry conditions between 5°C and 35°C Keep containers tightly closed and do not allow moisture ingress
Shelf life	12 months in original unopened containers

LIMITATIONS

Contains reactive silicone cure systems and organic solvent. Maintain good ventilation during application and wash hands well after skin contact. Test for dermatitis, and wear gloves if necessary.

The information contained in this technical data sheet is to the best of our knowledge correct. NO GUARANTEE IS EXPRESSED OR IMPLIED. Users must satisfy themselves as to the efficacy of the product in their application.