

BUILDSEAL

Polysulphide based elastomeric sealant for movement joints

DESCRIPTION : BUILDSEAL is a dual pack polysulphide based joint sealant available in two grades, i.e. gun grade and pouring grade. Gun grade is a gun applied or non-sag type for vertical and inclined expansion / contraction (movement) joints and pouring grade for horizontal movement joints. When two packs are mixed, i.e. polysulphide with curing agent, it forms a tough, flexible, durable rubber like material with strong adhesive properties on most building substrates.

STANDARD : BUILDSEAL complies with IS 12118 & BS 4254

USES : BUILDSEAL is used to form a long lasting weather resistant and waterproof seal in joints subject to regular movement or permanent deformation. Gun grade is exclusively used in water retaining structure under-passes, tunnels, basements, pre-cast concrete elements, bridges etc. Pouring grade is used in runways, subways, rigid pavements or in horizontal movement joints.

FEATURES

- ❖ Long lasting elasticity
- ❖ High movement capability
- ❖ Excellent adhesion to many substrates
- ❖ Good AFT fuel and chemical resistance

APPLICATION

Surface preparation : Surface must be clean, dry and free from any loose particles, grease or oils. Correct joint design should be followed. Above 10mm joint width, to use economical quantity of BUILDSEAL, width:depth ratio should be maintained at 2:1 by reprofiling the joint with our BUILDCRETE polymer mortar. Where joints have been treated with fibre filler board, they should be raked back to the required depth and then compressible solid pipe or polyurethane foam of diameter matching joint width as back filler should be used and a bond breaker tape be placed (no three side bonding). Use our BUILDSEAL primer on both inside surfaces of the joints.

Joint Design

Minimum joint depth	:	8mm
Maximum joint width	:	40mm
Width : depth ratio upto 10mm	:	1 : 1
For 10mm to 40mm width, width depth ratio	:	2 : 1

Coverage :

Joint Size mm	Liters per Running Meter	Running Metre 4 kg pack (240 ltr.)
5 x 5	0.025	100.0
10 x 5	0.050	50.0
20 x 10	0.200	12.0
40 x 20	0.800	3.0
50 x 25	1.250	1.9

MIXING

Both packs of polysulphide (larger quantity) and curing agent (small quantity) are pre-measured. Use larger pack and smaller pack at 92 : 8 by weight. Mixing time is normally around 8 – 10 minutes. Place the uniformly mixed sealant into the joints by tapping. Remove masking tape from the edges.

TECHNICAL DATA

Pack 'A'	:	White paste in larger quantity with cross linking polysulphide polymer.
Pack 'B'	:	Black paste in small quantity
Mixing ratio of packs 'A': 'B'	:	92 : 8 by weight
Primer for inside surfaces	:	Primer for BUILDSEAL
Movement capacity/expansion	:	± 25%
Shear movement	:	20%
Pot life :10°C	:	8-10 hours with curing time four weeks
20°C	:	5-7 hours with curing time two weeks
30°C	:	4-6 hours with curing time one week
35°C	:	3-5 hours with curing time one week
Density of the mixed material	:	1550 kgs./m ³ at 30°± 2°C
Shore 'A' hardness at 25°C	:	20 – 25
Service temperature	:	Upto 80°C
Application temperature	:	5°C to 40°C
Shrinkage	:	Upto 0.50%
Chemical resistance'	:	Dilute acids, alkalis, AFT fuel, kerosene, diesel petrol, lubricating oil, white spirit
Packing	:	4 kgs. and 1 kg. pre-measured dual pack
Health & safety	:	Highly inflammable – do not allow naked flame nearby.
Shelf life	:	12 months in unopened containers
Storage condition	:	Keep in a dry place and away from extremes of heat.