

SILICA FLEX HD100 is a Cross linked Closed cell Polymer and widely known as pre-moulded compressible Expansion Joint Filler Board. Being flexible & high compression-recovery SILICA FLEX HD100 is suitable for places where readily compressible low load transfer joint filler is required. Its excellent recovery property makes it the most suitable pro- duct for this application SILICA FLEX HD100 is non bituminous and very light in weight, this makes it very easy to handle and install. Being polymer based, it is rot proof and bacteria resistant.

FEATURES AND BENEFITS:

- Compression and recovery On compression up to 50% of its actual thickness, provide excellent recovery of 95% to its original.
- Bitumen free Being Bitumen free its is Non- staining and non oozing material, which make

SILICA FLEX HD100 clean and hygienic solution at time of application.

- Flexible Handles corners and radius applications easily. Thermally stable (from 40 °C to +70 °C)
- Cost Effective *SILICA FLEX HD100* sheets can be cut in any size and design with a normal knife or a hexa blade at application area with almost negligible wastage as compared to traditional solutions.
- Polymeric- SILICA FLEX HD100 is polymeric by nature hence it is rot proof, doesn't deteriorate also over a longer period.
- Closed cell Extremely low water absorption thus non- deteriorating and durable. Resilient and does not distort under normal load from wet concrete.
- · Chemically Resistant- Inert to most dilute acids, resistant to oil and hydrocarbons.

SPECS: S. No. Hd100	Parameters	Units	SILICA FLEX
1.	Density	Kg/M.Cu	90 ± 10%
2.	Water Absorption	Kg/Mt.Sq of	
		Cut Surface Area	0.090 Max
3.	Compression		
	Deflection &		
	Recovery, %		
	without weathering	%	90% Min
4.	Compression Deflection		
	& Recovery, % with		
	weathering	%	90% Min
5.	Extrusion	MM	4 MM Max.
6.	Alkali Resistance		Not Effect Observed
7.	Weathering Test		No Disintegration

USE / APPLICATIONS:

SILICA FLEX HD100 is suitable for use with a wide variety of concrete construction projects. It is also ideal for many sizes of concrete slab work, as well as other flatwork applications.

- Structural expansion joint filler for concrete brick and block work in concrete highways, airport runways parking areas, industrial flooring & taxi tracks etc.
- Creating Structural expansion joint in concrete Colum and beams of building.
- · Creating Isolation Joint in Machine Foundation at Factories.
- Isolation to infill panels
- Sidewalks
- · Driveways
- Patios
- · Airport runways
- · Warehouse flooring
- Curbs

Application:

- Structural expansion joint filler for concrete brick and block work in concrete highways, airport runways parking areas, industrial flooring & taxi tracks etc.
- · Isolation to infill panels
- · Bridge decks, abutments, pier hinge joints etc.
- As a backup support for sealant
- · Expansion joints in concrete highways, airport runways, taxi tracks etc.
- Expansion joints in parking areas, industrial flooring etc.
- Water retaining and water excluding structures

Laying Procedure – While creating expansion joint SILICA FLEX HD100 will become one side of shuttering. To hold two free sides of shuttering a MS bolt of 12 MM Dia with both sides threaded will be used at every 1 Mt interval with matching nuts with concrete sleeve 50 MM x 50 MM. This bolt will taken out & taken out & to be grouted afterwards with cement mortar. In an expansion \ movement joint SILICA FLEX HD100 is to be fixed in position to substrate using double sided adhesive.

When forming expansion joint with SILICA FLEX HD100 in in-situ concrete, joint sealing slots is to be formed in the following manner.

- SILICA FLEX HD100 is to become one side of shuttering. Cut off a strip of SILICA FLEX HD100 equal to D. Further; cut the strip along the joint length into two.
- The depth of top strip should be = (1.25 W or W + 5 mm whichever is less) + (W/2 or 15 mm whichever is less) and the bottom strip = (D top strip) where

D =slot depth in MM W =slot width in MM

Pin the top strip back on to the bottom strip using nails at two-inch intervals. Ensure that the slot is clean and dry Install a strip of filler material on top of *SILICA FLEX HD100* flush with finished surface either by synthetic rubber based adhesive or by regular means.

- Just prior to Sealing pull off the top strip to create an uncontaminated sealing slots ready for preparation & sealing.
- Install SILICAROD 30 MM Diameter (25% larger than the joint width or W + 5 MM whichever is less) in the
 joint & finish with sealant on the top.



P.D. Projects (An ISO 9001: 2015 Certified Co.)

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