

Duraboard® HD 100

Dura Board for in-situ concrete

Description

Deesa HD100 is a Cross linked Closed cell Polymer and widely known as compressible Expansion Joint Filler Board. It is flexible as well as has high compression-recovery, therefore suitable for application at places which require readily compressible low load. This filler board is non-tainting and therefore suitable for use in potable water retaining and water excluding structures. It contains no bitumen.

The most compressible filler board for expansion joints Deesa HD100' is a high performance cross-linked, pre-molded, compressible joint filler board. It is readily compressible filler board that ensures low load transfer. 'Deesa HD100' (expansion joint filler board) is a non-bituminous superior alternative to bitumen boards.

Advantages

- Negligible water/moisture absorption
- Resilient
- Excellent chemical resistance
- Thermal stability (-400 C to +70p C)
- Non-staining, non-impregnated, non-bleeding
- Environment friendly
- Easy to use – can be cut with knife for easy installation
- Rot-proof and bacteria resistance – no external treatment required before installation

Description

Dura board® HD insulation is a high-density board product that offers the same high level of dimensional and surface uniformity as Duraboard LD insulation but provides enhanced compressive strength and a higher modulus of rupture. This higher density is achieved through the inclusion of clay additives during the manufacturing process.

Its higher strength makes Duraboard HD insulation particularly well-suited to weight load support applications such as refractory brick backup or for covering larger unsupported spans..

No Weather Effect:

Polyolefin Expansion Joint Filler is resilient and does not distort under low load transfer from wet concrete. No worry, just fit/install and forget. Rain, cold or heat can't change its performance and that makes it more versatile material than others traditionally used filler sheets.

Resilient

95% recovery after deflection (compression), as it is one of best feature for any Preformed Closed-Cell filler desired

Great Chemical Resistance

As any EJP board needs to be inert to most dilute acids, resistant to oil and hydrocarbons and it is very suitable for EJP applications.

Simplicity

Unlike the bituminous filler board it is very easy to handle and install it. Less handling loss and doesn't get affected by mishandling. Preformed Closed-Cell filler it can be cut in any shape using normal knife. Therefore it doesn't requires any special types of tools or expertise to install them. This makes very useful impact for civil engineers and architects to select in place of the old concept bitumen boards.

Stability

These sheets are very versatile to use and are proved to be rot proof and bacteria resistant. This helps to avoid any treatment requirements for blocking such micro-organisms.

Temperature

Our polymer based joint filler sheets accept nominal temperature cycle with minimal load transfer. Hence it doesn't affect the structure.

Application

- Structural expansion joints in concrete brick and block work.
- Isolation joints to infill panels.
- Bridge decks, abutments, pier hinge joints, etc.
- Expansion joints in concrete highways, airport runways, taxi tracks, etc.
- Expansion joints in parking areas, industrial flooring etc.
- Water retaining and water excluding structures

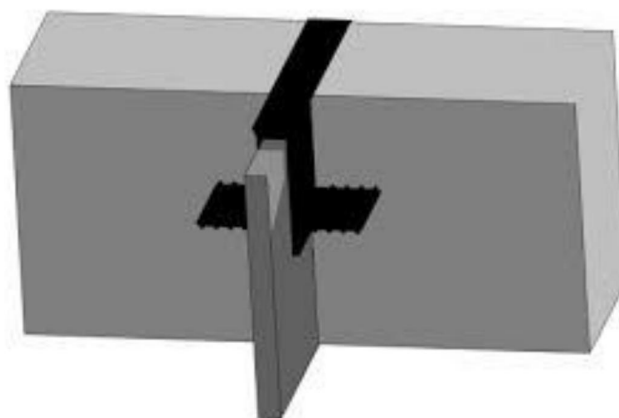
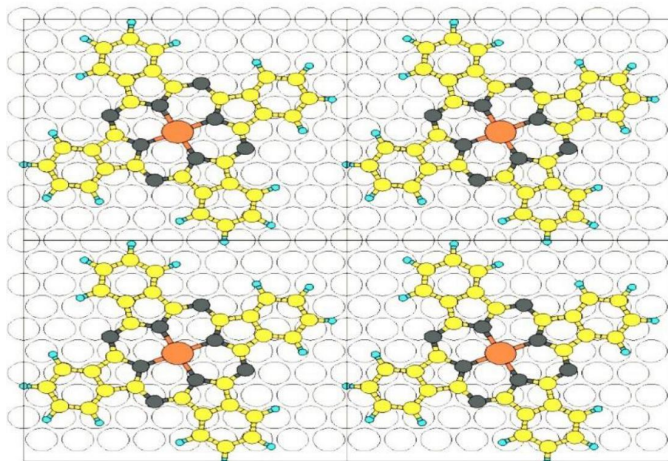


Duraboard® HD 100



Closed cell structure

Deesa HD100 sheets have extremely low water absorption (<0.05%) property due to closed cell structure and thus none deteriorating and durable too. This feature also helps in better compression recovery.



Deesa HD 100 Dura Board

Bitumen free

No bitumen is used and hence it is non staining product which in turn results trouble free for the labor force.

Property/Benefits	Deesa HD100 Dura Board	Bitumen Impregnated Filler Board
Manufactured from	Special grade of Polymers	Bitumen + Composites + some additives
Product Handling loss	NIL	Considerable, if not careful
Structure and implications	Closed Cell Structure and that will not allow water absorption	Not Closed cell structure and that results in very high water absorption
Life	Too long	Too short
UV stability	Yes	Not sure
Resistance to Bacterial /Fungal growth	Yes	No or not sure
Weight	Very light	Comparatively heavier
Cost to customers	In terms of overall cost, very much economical	More due to shorter life. Life is shorter due to Water absorption, non-UV stability, somewhat brittle type nature.
Product sizes	Deesa HD100 boards are available in different sizes to customers to select from: 1200x1800mm, 1500x1600mm, 1000x2000mm & more	Traditionally bitumen impregnated board is produced only in one size normally - 1200mm x 1200mm
Stains during applying	Never	Yes, may be.
Cutting & Installing	Deesa HD100 is very easy to install	Difficult
Compression recovery	> 95% normally.	70% or less
Overall rating	Excellent product with latest approach in enhancing its properties to meet civil engineering's requirements.	Bituminous joint filler is considered as conventional product and need to rethink to use it for its some drawbacks.

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Compliance

Our Deesa HD100 – expansion joint filler board has proven performance and complies with DOT Specifications Part-III, highway Clause 1015 (American) which is evident from the following comparative chart of parameters.

Sr No.	Parameters	Passing Value as per clause 1015	Deesa HD100
1	Compression recovery Minimum	70%	95%
2	Weathering test	No sign of disintegration or shrinkage	No sign of disintegration or shrinkage
3	Compression extrusion	Free edge does not exceed 6mm	3.5mm

Technical Details of Deesa HD 100 Dura Board

Density	100 kg/m ³ ± 10%
Water absorption	0.080 kg/m ² max
Compression deflection and recovery without weathering	Min 94%
Compression deflection and recovery with weathering	Min 92%
Extrusion	3mm max
Alkali resistance	No effect observed
Weather test	No disintegration



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