

EDEN BITUFELT TA

Torch Applied Bitumen Waterproofing Membrane

PRODUCT DESCRIPTION

EDEN BITUFELT TA is a torch applied bituminous waterproofing membrane with strong elastomeric properties used for durable waterproofing of below/above grade concrete structures such as basement, foundations, retaining wall surface, water tank area e.t.c. EDEN BITUFELT TA is a polymer modified bituminous waterproofing membrane, manufactured from a mixture of bitumen and selected polymers. Thanks to its excellent adhesion ability EDEN BITUFELT TA can be applied over a wide range of substrate with ease. Its quick adhesion time makes its application quick and efficient. EDEN BITUFELT TA also exhibits high heat and extended UV resistance properties and can be improved to ensure longevity when combine with a protective coating.

SPECIAL FEATURES

- ✚ Resistant to water penetration.
- ✚ Suitable for use on below ground structures.
- ✚ Easily applied to substrate by heat.
- ✚ Its mechanical properties remain unchanged after heating during installation.
- ✚ Superb adhesion properties
- ✚ Fast curing/cooling.
- ✚ Provides excellent crack-bridging properties.
- ✚ Superb thermal resistance.
- ✚ Unaffected by domestic chemicals such as detergents.
- ✚ Features quick and easy fix of mechanical damages locally within minutes.
- ✚ Torch applied membrane technology.
- ✚ Does not support bacterial and Fungal growth

WHERE TO USE

EDEN BITUFELT TA is suitable for application in the following areas:

- ✚ Foundation wall Waterproofing
- ✚ Waterproofing of Retaining Walls Bridges, and Basements
- ✚ Waterproofing Under-tile in Bathrooms, Terraces, and Roof top areas etc.
- ✚ Pile and Pile cap waterproofing etc.

APPLICATION PROCEDURE

Stage-1: SURFACE PREPARATION & INVESTIGATIONS

A - Pre Substrate Investigation

- ✚ To further ensure durability and efficiency of membrane performance, substrate should possess a minimum compressive strength of at least 25MPa, and a cohesive bond strength of at least 1.5MPa.
- ✚ Check substrate for the presence of old loose coatings, dirt, fats, oils, organic substances, existing membranes and dust. In any case of the existence of

the above listed adequate surface preparatory measures should be employed such as surface grinding by means of a grinding machine.

- ✚ Ensure new concrete structures is cured for at least 28 days.
- ✚ All visible surface irregularities and indentations need to be smoothed and evened out using EDEN reprofiling range of mortars
- ✚ Ensure substrate has no flammable coatings
- ✚ Ensure that the substrate itself is non-flammable.

B - Surface Preparation

- ✚ Careful surface preparation is essential for optimum finish and durability thus, surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. In order to achieve this, concrete surface must be mechanically profiled and prepared by shot blasting, sandblasting, water-jetting, scarifying, diamond-grinding or other engineering-approved method.

C - Post Substrate Preparation Investigation

- ✚ Any uneven or visibly loose pieces needs to be chipped off and perfected using EDEN reprofiling range of mortars to achieved an excellent smooth finish.
- ✚ Thoroughly remove any evidence of grinding dust Observe.

Stage-2: APPLICATION

A - Priming

Apply EDEN BITUCANE 1k to prepared substrate by roller or brush in one coat and allow to dry. EDEN BITUCANE 1K is used as a primer for the installation of EDEN BITUFELT TA. Upon curing, some uneven balance my be observed due to the uneven smoothness of substrate, this will be properly coating upon completion of the minimum two coat application process. Allow primer coat to cure for at least 3 – 6 hours or once tacky, the installation of EDEN BITUFELT TA can be done.



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B - Application

- ✚ Begin membrane application by unrolling membrane and aligning the side laps.
- ✚ Re-roll the roll halfway and stand on the unrolled portion to prevent shifting.
- ✚ Side overlaps should be a minimum of 100 mm and the end overlaps 150mm.
- ✚ EDEN BITUFELT TA is installed by using a cylinder fed propane gas torch.
- ✚ Use of hand-held roofing torch is recommended as it affords a good control.
- ✚ If multiple burner torching machines are utilized, care must be taken to ensure the application of uniform heat and avoid overheating the membrane.
- ✚ Begin torching the embossed polyethylene side of the rolled portion of the membrane.
- ✚ Proper torching procedure involves passing the torch flame in an "L" pattern applying about 75 percent of the heat across the coiled portion of the roll and 25 percent across the substrate, including the lap area of the previously installed membrane.
- ✚ As the membrane is heated the embossing starts to melt away exposing a shiny bitumen surface.
- ✚ Roll forward the membrane and press firmly with the boot or roller against the substrate to bond well.
- ✚ The propane flame should be moved from side to side and up the lap edge while the membrane is slowly unrolled and adhered to the underlying surface.
- ✚ Subsequent shift of the roll shall be avoided after heating has begun.
- ✚ When complete, the remaining un-torched membrane shall be re-rolled and installed in the same manner. When one end is complete, re-roll the opposite end not yet torched, and install in the same manner.
- ✚ As subsequent rolls are installed, heat is applied to both the roll and the exposed laps of the membrane being overlapped onto.
- ✚ Be sure to heat the entire roll evenly, not just the lap areas, with extra concentration at the laps.
- ✚ Heat both the overlaps and use round tipped trowel to seal the overlap.
- ✚ Adequate heat is confirmed when a uniform flow

of melted bitumen compound flows evenly like a bead that oozes from the applied membrane's edges.

RECOMMENDATION:

Before Use

Check product seal to ensure it is unbroken or fake. Consult customer support should any concern arise for clarity and Technical support.

General

- ✚ It is recommended that installation begins from the low point or drains, so the flow of water is over or parallel to the plies, but never against the laps.
- ✚ All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps.
- ✚ Excess compound should be smoothed and pressed into the seam using a heated trowel.
- ✚ Any un-bonded areas must be lifted and re-torched.
- ✚ Do not attempt to reseal by torching the top surface of the membrane.

THEORETICAL COVERAGE

Theoretical Coverage of ED Felt HD is approximately 10m²/roll considering edge to edge coverage and excluding overlapping.

CAUTION

- ✚ Protect EDEN BITUFELT TA membrane once cured from mechanical damage by using a suitable protection sheet or a cement screed or fibre cement board or marine board for floors or areas subject to further works like reinforcement setting on large pile caps.
- ✚ Do not over heat, as this can weaken membrane affect its performance leading to crack upon exposure to sunlight.
- ✚ Uniform heating over EDEN BITUFELT TA surface and uniformly sustained pressure is recommended to improved proper adhesion to substrate.
- ✚ It is advisable to use hand gloves and goggles during application.
- ✚ Avoid application and damp or moist substrate.
- ✚ It should be stored at room temperature.
- ✚ Be care to observe written instruction on all technical



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documents for this product such as *Safety Data Sheet, Method Statement Data Sheet, Technical Data Sheet, and Test Certificate Results.*

✚ Application in cooler temperatures may require extra/longer heating time/pressure.

TECHNICAL PROPERTIES

<i>Packaging Coverage</i>	10m ²	<i>Roll</i>
<i>Form</i>	Roll	<i>Rolled bundle</i>
<i>Appearance</i>	Black roll	<i>Sealed</i>
<i>Width</i>	1	<i>m</i>
<i>Length</i>	10	<i>m</i>
<i>Thickness</i>	4	<i>mm</i>
<i>Carrier</i>	Polyester	
<i>Bitumen Modification</i>	SBS	
<i>Mass</i>	4.63	<i>kg/m²</i>
<i>Roll Weight</i>	37.04	<i>kg</i>
<i>Surface finish</i>	<i>(upper) Mineral</i>	<i>(lower) Thermo-Fusible Fil</i>
<i>Selvedge</i>	75mm	<i>(upper)</i>

APPLICATION INFORMATION

<i>Membrane Bond</i>	Torch applied	
<i>Lap Bond</i>	Torch applied	
<i>Adhesion requirement</i>	Slight Pressure for proper bonding	

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY HEALTH AND SAFETY

Information on the safe handling, storage and disposal of chemical products, user is advised to refer to the most recent/updated *Safety Data Sheet, Method Statement Data Sheet, and Technical Data Sheet*, containing physical, ecological, toxicological and other safety/handling/storage related data.

CLEAN UP

Wash hands and tools with EDEN super cleaner or any of EDEN recommended cleaning products promptly before the material hardens. Cured material must be mechanically removed.

TECHNICAL SUPPORT

AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) Ltd provides a technical advisory service supported by a team of specialists in the field.



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STORAGE AND SHELF LIFE

- ✚ Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.
- ✚ Protect EDEN BITUFELT TA from all sources of heat.
- ✚ Do not stack pallets on top of each other.
- ✚ The shelf life is 12 months if stored as per recommendations.
- ✚ Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

HEALTH & SAFETY

- ✚ Please ensure that hand gloves and goggles are worn during installation
- ✚ Apply in ventilated areas.
- ✚ It is only important that during application and after application, standard safety procedures are done.
- ✚ Please consult current MSDS for product.
- ✚ For Professional Use only.

ADDITIONAL INFORMATION

AISE-OHIS *EDEN CONSTRUCTION (CHEMICAL) Ltd* manufactures a complete range of construction chemical products which include:

- ✚ Cementitious Waterproofing membrane
- ✚ Acrylic Waterproofing membrane
- ✚ Polyurethane Waterproofing membrane
- ✚ Bituminous Waterproofing membrane
- ✚ Flooring solution
- ✚ Damp-Proofing products
- ✚ Repair and refurbishment systems
- ✚ Water-stop
- ✚ Cleaning agent
- ✚ Bonding agent
- ✚ Decorative / Repair mortars
- ✚ Tile adhesive and grouts

For more information on any of our products, please contact AISE-OHIS *EDEN CONSTRUCTION (CHEMICAL)* global or regional office.

LEGAL NOTE

Details contained in this Technical Data Sheet is provided in good will based on the experience and knowledge of the products been stored, handled and applied properly under normal conditions. That client will be responsible to duly follow all instruction written herein. However, Whilst Aise-Ohis *Eden Construction (Chemicals)* Limited endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. Therefore, user is mandated to check/test product's suitability for the intended application and purpose. Aise-Ohis *Eden Construction (Chemicals)* Limited reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.