



UNITECH  
for Building &  
Construction Materials  
www.unitech-ikk.com

# UNITECH BITUBOARD

& Protection Board

## Product name:

**Unitech Bituboard** (Bitumen Impregnated Fibre Filler & Protection Board).

## Product Description:

**Unitech Bituboard** is manufactured from highly resilient softwood fibres coated with bitumen when in pulp form to ensure that each individual fibre receives a waterproof coating. When the fibres are pressed into a homogeneous board in the final stage of manufacture, all traces of bituminous moisture are extracted.

**Unitech Bituboard** is thus dry and clean, and cannot extrude any form of staining matter. It is resistant to moisture penetration and ice formation in the joint. It is immune to dry and wet rot, fungus and most forms of insect attack or similar forms of deterioration. It completely fills a joint under repeated cycles of expansion and contraction with minimum extrusion. It is also a good insulating vapour barrier, easily handled without breakage.

## Basic Use:

**Unitech Bituboard** is designed as a standard, inexpensive, pre-moulded joint filler for expansion joints in civil engineering and building construction works of all types. The main uses for **Unitech Bituboard** in the construction industry are: Roads, bridges, runways, pedestrian areas, basements, retaining walls and site slabs.

## External Walling and Cladding:

**Unitech Bituboard** is recommended for filling structural expansion and separation joints in brick, block and concrete construction.

## Protection work:

It is recommended for the protection of different materials, particularly waterproofing below-grade where abrasive and sharp backfill material could puncture or otherwise damage the waterproofing.



**Table 1- Technical Specifications:**

Specification	Unit of measurement	Value for nominal thickness in mm			
		9.5 & 10	12 & 12.5	18 - 20	24 - 25
Density of dry board	kg/m <sup>3</sup> lb/ft <sup>3</sup>	296 18.5	281 17.5	252 15.7	262 16.3
2h volume water absorption	%	4.1	3.4	1.9	1.6
24h volume water absorption	%	20	18	8	7
Moisture content	%	5.4	5.2	5.7	5.3
Asphalt content	%	10	10	10	10
Linear variation with change in moisture content	%	0.13	0.11	0.11	0.10
Compression	mm in	0.21 0.008	0.48 0.019	0.38 0.015	0.47 0.018

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## Technical Specifications:

See Tables 1 & 2

**Table 2- Typical Performance Characteristics:**

Properties	Test Method
Extrusion under Compression	< 1mm
Application Temperature	-25°C to 80°C
Weather Resistance	-40°C to 130°C under normal usage
Shelf Period	>2 years
Storage Requirements	Store flat, preferably under cover
Flash Point	>200°C
Flammability	Will burn slowly, does not support spread of flames
Toxicity	Non toxic under normal conditions of use
Chemical Resistance	Dilute acids -Excellent Dilute alkalis -Excellent Aliphatic hydrocarbons -Fair Aromatic hydrocarbons -Fair Chlorinated solvents -Fair Salt solutions -Excellent Detergent solutions -Excellent Water -Excellent
Shrinkage Factor	<0.5%
Specification Compliance	ASTM D 1751-83 & BS 1142:1989 AASHTO M 213 Corps of Engineers CRD-C 508 FEDERAL SPECIFICATION HH-F-341 F, type I

## Applications:

**Unitech Bituboard** can be readily sawn or drilled on site as required. Thicknesses greater than 25 mm (1") can be formed by bonding two sheets together, using any suitable wood adhesive or a bitumen latex solution.

**Unitech Bituboard** can be stored short term in the open on site without deterioration although it is best kept under cover. After application exposed faces should be tamped down to ensure that the Bituboard fills the joint completely and provides a continuous support for the joint sealant compound. A suitable bond breaker, such as polyethylene tape, should be employed between the Bituboard and the sealant. After application exposed faces should be sealed with a suitable sealant or incorporate a PVC capping strip around the sheet edge prior to concreting.

In case **Unitech Bituboard** is used for the protection of waterproofing membranes, an adequate material can be applied to adhere the boards on the membrane (consult the waterproofing membrane manufacturer).

## Health & Safety:

**Unitech Bituboard** is essentially non-toxic under normal conditions of use.

Bituboard expansion joint filler between beams & columns in building



Bituboard expansion joint filler in airport runways



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