

# UNITECH BITUBOARD

Bitumen Impregnated Fiber Filler  
& Protection Board



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

## Product name:

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

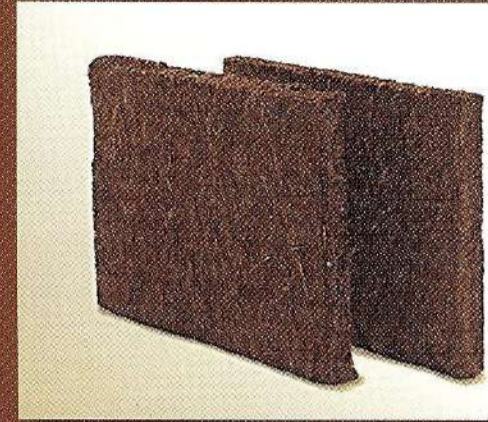
## Product Description:

**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

**Jeddah** Saudi Arabia  
Tel: +966 2 627 8222  
Fax: +966 2 627 8722  
unitech.ksa@unitech-ikk.com

**Yanbu** Saudi Arabia  
Tel: +966 4 390 1499  
Fax: +966 4 322 7101  
unitech.ksa@unitech-ikk.com

**Riyadh** Saudi Arabia  
Tel: +966 1 454 9282  
Fax: +966 1 456 6627  
unitech.ksa@unitech-ikk.com

**Tabuk** Saudi Arabia  
Tel: +966 4 422 6414  
Fax: +966 4 422 6414  
unitech.ksa@unitech-ikk.com

**Jeddah, Ghurab Showroom** KSA  
Tel: +966 2 667 2000  
Fax: +966 2 661 4306  
unitech.ksa@unitech-ikk.com

**Khamis Mushayt** KSA  
Tel: +966 7 237 5929  
Fax: +966 7 237 8783  
unitech.ksa@unitech-ikk.com

**Riyadh, Rail St. Showroom** KSA  
Tel: +966 1 448 2835  
Fax: +966 1 446 2717  
unitech.ksa@unitech-ikk.com

**Skakah** Saudi Arabia  
Tel: +966 4 626 3904  
Fax: +966 4 626 3904  
unitech.ksa@unitech-ikk.com

**Mak kah** Saudi Arabia  
Tel: +966 2 558 1358  
Fax: +966 2 558 7213  
unitech.ksa@unitech-ikk.com

**Gizan** Saudi Arabia  
Tel: +966 7 321 6660  
Fax: +966 7 321 0665  
unitech.ksa@unitech-ikk.com

**Al Kharj** Saudi Arabia  
Tel: +966 1 540 9982  
Fax: +966 1 540 3130  
unitech.ksa@unitech-ikk.com

**Hail** Saudi Arabia  
Tel: +966 6 543 3931  
Fax: +966 6 543 3935  
unitech.ksa@unitech-ikk.com

**Mad inah** Saudi Arabia  
Tel: +966 4 864 9111  
Fax: +966 4 813 2254  
unitech.ksa@unitech-ikk.com

**Najran** Saudi Arabia  
Tel: +966 7 321 4038  
Fax: +966 7 321 4035  
unitech.ksa@unitech-ikk.com

**Qassim** Saudi Arabia  
Tel: +966 6 385 2186  
Fax: +966 6 382 3946  
unitech.ksa@unitech-ikk.com

**Hafar Al Batin** KSA  
Tel: +966 3 721 5915  
Fax: +966 3 721 5915  
unitech.ksa@unitech-ikk.com

# UNITECH BITUBOARD

Bitumen Impregnated Fiber Filler  
& Protection Board



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

## 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	<table> <tr> <td>Dilute acids</td> <td>-Excellent</td> </tr> <tr> <td>Dilute alkalis</td> <td>-Excellent</td> </tr> <tr> <td>Aliphatic hydrocarbons</td> <td>-Fair</td> </tr> <tr> <td>Aromatic hydrocarbons</td> <td>-Fair</td> </tr> <tr> <td>Chlorinated solvents</td> <td>-Fair</td> </tr> <tr> <td>Salt solutions</td> <td>-Excellent</td> </tr> <tr> <td>Detergent solutions</td> <td>-Excellent</td> </tr> <tr> <td>Water</td> <td>-Excellent</td> </tr> </table>	Dilute acids	-Excellent	Dilute alkalis	-Excellent	Aliphatic hydrocarbons	-Fair	Aromatic hydrocarbons	-Fair	Chlorinated solvents	-Fair	Salt solutions	-Excellent	Detergent solutions	-Excellent	Water	-Excellent
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.

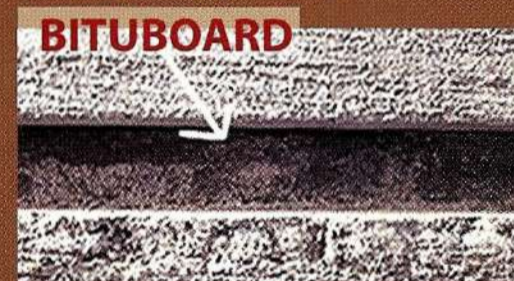
**Unitech Bituboard** can be stored short term in the open on site without deterioration although it is best kept under cover. After application exposed faces should be tamped down to ensure that the Bituboard fills the joint completely and provides a continuous support for the joint sealant compound. 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



\* We can alter specifications without prior notice.

**Dammam** Saudi Arabia  
Tel : +966 3 859 0097  
Fax: +966 3 857 8177  
unitech.ksa@unitech-ikk.com

**Jubail** Saudi Arabia  
Tel : +966 3 361 4390  
Fax: +966 3 361 4499  
unitech.ksa@unitech-ikk.com

**Hufuf** Saudi Arabia  
Tel : +966 3 586 9732  
Fax: +966 3 584 5966  
unitech.ksa@unitech-ikk.com

**Manama** Bahrain  
Tel : +973 172 50118  
Fax: +973 172 50117  
unitech.bahrain@unitech-ikk.com

**Dubai - Al Quoz** UAE  
Tel : +971 4 347 8238  
Fax : +971 4 347 7080  
unitech.uae@unitech-ikk.com

**Dubai - Al Rashidiyah** UAE  
Tel : +971 4 285 6031  
Fax : +971 4 286 2941  
unitech.uae@unitech-ikk.com

**Sharjah** UAE  
Tel : +971 6 534 4092  
Fax: +971 6 534 8949  
unitech.uae@unitech-ikk.com

**Abu Dhabi - Musaffah** UAE  
Tel : +971 2 554 8787  
Fax: +971 2 554 8788  
unitech.uae@unitech-ikk.com

**Cairo** Egypt  
Tel : +20 2 346 8566  
Fax: +20 2 346 8567  
unitech.egypt@unitech-ikk.com

**Doha** Qatar  
Tel : +974 451 3301/2/3  
Fax: +974 451 3305  
unitech.qatar@unitech-ikk.com

**Beirut** Lebanon  
Tel : +961 1 858 277  
Fax: +961 1 858 276  
unitech.lebanon@unitech-ikk.com

**Amman** Jordan  
Tel : +962 6 556 3030  
Fax: +962 6 554 7911  
unitech.jordan@unitech-ikk.com

**Tripoli** Libya  
Tel : +2182 1719 9384  
Fax: +2182 1719 9384  
unitech.libya@unitech-ikk.com

**Muscat** Oman  
Tel : + 968 244 72004  
fax : + 968 244 72006  
unitech.oman@unitech-ikk.com

**Shanghai** China  
Tel : +86 21 6764 3613  
Fax: +86 21 6764 3034  
unitech.china@unitech-ikk.com

**Stuttgart** Germany  
Tel : +49 711 6868 7222  
Fax: +49 711 6868 7223  
unitech.germany@unitech-ikk.de