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SOCIÉTÉ D'UTILITÉ PUBLIQUE POUR LE CONTRÔLE DE LA QUALITÉ ET L'INNOVATION DU BÂTIMENT
NON-PROFIT COMPANY FOR QUALITY CONTROL AND INNOVATION IN BUILDING
GEMEINNÜTZIGE GESELLSCHAFT FÜR QUALITÄTSKONTROLLE UND INNOVATION IM BAUWESEN

A-33/2004

ÉME

TECHNICAL APPROVAL

for the application of
FLEXIGUM damp proofing

IN THE CONSTRUCTION INDUSTRY

issued by ÉMI Kht. at the request of

METALSERVICE Termelő, Szolgáltató és Kereskedelmi Rt.
(H – 8000 SZÉKESFEHÉRVÁR, Börgöndi út 14.)

as holder of ÉME Technical Approval

on the basis of the Joint Ministerial Decree No. 3/2003. (I.25) BM-GKM-KvVM and designation by the Minister of IKIM / IKIM Communiqué No. 16/1998 (IKK.8) / as well as on the basis of assessment of the test results included in the relevant identically marked Approval Test Report and further under the data, conditions and regulations set out on the back/ supplementary page(s) hereof.

Field of application of the product:

damp proofing against soil vapour, soil moisture, ground water, aquiferic water, feedwater, and – as a concealed structure – against stormwater.

Description and identification marking (type, identification according to ÉMI Kht's classification system "SZRJ") of the product:

modified bitumen based products (ÉMI Kht. SZRJ 1.16.1.)

The Technical Approval shall be valid until **30 July 2009**.

Budapest, 27 July 2004

Sándor Horváth
Deputy General Manager
Director for Quality Affairs and Marketing

This document is issued by ÉMI Kht. DOKINFO to certify that this approval issued in the English language is identical in substance with the original document and may be used just like the original approval. In the case of a legal dispute, the contents of the original Hungarian document and its interpretation shall govern.

This Technical Approval consists of 3 numbered pages, which shall be valid only in conjunction with each other.



KBiA-II-4-26.03.2003

Manufacturer of product:

BITUM Ltd
HAIFA, Hayetzira # 4.
IL – 26111

Manufacturing plant:

BITUM Ltd
HAIFA, Hayetzira # 4.
IL – 26111

Distributor of product:

METALSERVICE Termelő, Szolgáltató és Kereskedelmi Rt.
SZÉKESFEHÉRVÁR, Börgöndi út 14.
H – 8000

Characteristics (parameters) of the product essential for their application and serving as a basis for attestation of conformity:

Product characteristics and units	Requirements	Test/assessment method
external appearance	thin-liquid, free of lumps and sediments	MSZ EN 1425:2000
density	g/cm^3	>1.0
ash content		MSZ EN ISO3838:2000 MSZ 19956:1995
viscosity (discharge period) Ø 4mm, at 25°C	s	>12
pH rate		>9 test paper
tensile strength	MPa	>0.08
elongation at rupture	%	>1200
tensile strength after heat ageing at 70°C for 14 days	MPa	>0.08
elongation at rupture after heat ageing at 70°C for 14 days	%	>1200
tensile strength after immersing in 20°C water for 7 days	Mpa	>0.08
elongation at rupture after immersing in 20°C water for 7 days	%	>1200
water absorption	%	MSZ 135-1:1981
water tightness 4.5mm 10 kPa		compliance MSZ EN 1928:2001 The method
water tightness 4.5mm 0,2 MPa		compliance MSZ EN 1928:2001 method B on permeable concrete
heat resistance at 100°C		compliance MSZ EN 1110:2000
bendability at -15°C		compliance MSZ EN 1109:2000

Essential technical conditions of application of the product:

No horizontal proofing under load (e.g. between the foundation and the rising wall) is allowed with FLEXIGUM. The manufacturer's recommendation shall be complied with in this case.

The finished proofing shall be fitted with protection in all cases.

The structures may be made on the basis of the design and implementation guidelines issued by ÉMSZ.

The damp proofing material FLEXIGUM falls into the 'non-inflammable' fire risk category, and it carries the E symbol.

The product may only be marketed with a Hungarian product description, application guidelines and compliance certificate.

Each packing unit shall include a Hungarian control voucher, on the basis of which the following may be identified:

the name and address of the manufacturer or supplier,

**the name of the product,
the production date (year, month, day),
gross weight (kg),
the ÉMI Kht code A-33/2004.**

Regarding the application, storage and transport of the product, the manufacturer's specifications shall be observed.

Conformity attestation method of product:

Supplier's Statement of Adequacy according to 2.ii) Second Option (3) of Annex No. 4 to Joint Decree 3/2003 (I.25) BM-GKM-KvVM.

The holder of Technical Approval is obliged to have follow-up inspection performed at a frequency of **once a year.**

The first follow-up inspection should be completed until **31 July, 2005.** Considering that term, the holder of Technical Approval shall order – without further notice – the follow-up inspection and ÉMI Kht. shall satisfy such order. In default of such follow-up inspection, the Technical Approval shall lose its validity and ÉMI Kht. will cancel the approval from the register and will publish the fact of its having done so.

Dr Károly Matolcsy
Head of Scientific Department

Gyula Palotai
Scientific Associate