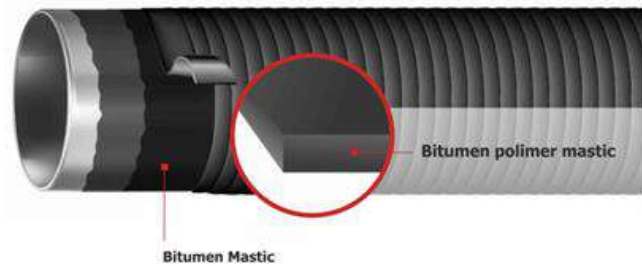


# PRODUCT DATA SHEET

## Insulating bitumen-polymer mastic Bitumen Mastic DKH-90



Insulating bitumen-polymer mastic **Bitumen Mastic DKH-90** is intended for use as part of a combined protective coating of class B according to clause 14 of Table 4, DSTU 4219-2003, Amendment No. 1 for anticorrosive insulation of the outer surface of steel main pipelines for their protection against underground corrosion, with a diameter of up to 1220 mm inclusive.



### ■ STRUCTURE

Bitumen-polymer

A multicomponent composition that includes bitumen, polymers, plasticizers, elastomers and fillers

Components - polymers, plasticizers, elastomers, resins (a mixture of bitumen melt or solution with a polymer as a binder)

Color black

### ■ SPECIAL ADVANTAGES

Certificate of conformity to DSTU 4219-2003

Does not require plasticizer at the heating stage

Outstanding plasticity

High electrical insulation

Primer for mastic is prepared in road conditions by mixing molten bitumen-polymer mastic and gasoline

Compatible with factory coatings of PE and bitumen

### ■ AREA OF APPLICATION



Insulating bitumen-polymer mastic **Bitumen Mastic DKH-90** is a proven solution for permanent corrosion protection on pipes and welds in areas with an increased risk of corrosion by the "hot" method.

Insulating bitumen-polymer mastic **Bitumen Mastic DKH-90** is intended for use as part of a combined protective coating of class B in accordance with clause 14 of Table 4, DSTU 4219-2003, Amendment No. 1 for anti-corrosion insulation of the outer surface of steel main pipelines for their protection against underground corrosion, with a diameter of up to 1220 mm inclusive. The service life as part of the protective coating of the structure, clause 14 of Table 4, DSTU 4219-2003, Amendment No. 1, is not less than 30 years.

### ■ FORMS OF DELIVERY

Products	Packing	Weight (kg)
Bitumen Mastic DKH-90	Cardboard box	15-25

■ Other size and packaging options available on request

### ■ APPLICATION TERMS

Properties	Unit	Bitumen Mastic DKH-90	Test method
Surface condition of steel pipes: -cleaning level	---	min. St 2	ISO 8501-1
Pipe surface temperature	°C	≥ +3°C above dew point	---
Temperature range: -application	°C	+5 to +40	Manufacturer's recommendation

## ■ PRODUCT PROPERTIES Bitumen Mastic DKH-90

Properties	Unit	Bitumen Mastic DKH-90
Structural and component composition	---	Bitumen-polymer
Appearance	---	Homogeneous black mass without visible foreign inclusions
Softening point (KIS), according to DSTU EN 1427:20118, not less than	°C	from 90 to 95
Penetration at a temperature of +25°C, 0.1 mm, not less than	units	18
Ductility, at a temperature of +25°C, not less than	cm	8
Water absorption within 24 hours, not more than	%	0,2
Impact strength at 20°C, not less than	J	Withstands 15
Penetration resistance (relative residual coating thickness) in the temperature range from 20°C to Tmax and load - 10 N/mm <sup>2</sup> , not less than	%	60
Dielectric continuity. Absence of breakdown by electric current at voltage of 5 kV/mm thickness	kV	It can withstand. No breakdown
Transient resistivity of the coating in 3% NaCl solution at a temperature of 20°C, not less than - initial - after 100 days of exposure	Ohm x m <sup>2</sup>	10 <sup>8</sup> 10 <sup>7</sup>
Radius of coating delamination at cathodic polarization, not more than - at a temperature of 20°C - at the temperature Tmax	mm mm	11 20
Adhesion of the tape to bitumen-polymer mastic, not less than - at a temperature of +20°C - at the temperature Tmax	H/mm H/mm	1,5 1,0
Adhesion of bitumen-polymer mastic to primed steel on a cut at a temperature of 20°C, not less than	H/mm <sup>2</sup>	0,25
Adhesion of the coating to steel after aging in water for 1000 h, not less than - at a temperature of 20 °C	H/mm <sup>2</sup>	0,3
Resistance to thermal aging. Change in the values of the exposed coating indicators relative to the non-exposed one after exposure to air for 1000 h at a temperature of (Tmax + 20) °C, not more than -impact strength -adhesion to steel	% %	25 25
Temperature resistance as part of the protective coating	°C	+50

## ■ PACKAGING, STORAGE AND TRANSPORTATION

**Packaging:** cardboard box, the packaging is not returned after use.

**Storage:** in the original packaging, in a dry place without load in a horizontal position, in warehouses, open areas under a canopy, protected from sunlight and precipitation. When storing **Bitumen Mastic DKN-90** and transporting it to the place of work, store and transport it in an upright position, no more than six rows of boxes with mastic. Transportation and storage at a distance of at least 1 m from heat sources.

Shelf life in the original packaging is at least 24 months from the date of manufacture.

Storage temperature: ≤ +40°C

**Transportation:** on/off pallets, in original packaging, by all means of transportation.

## ■ RELATED PRODUCTS

### Kebu Tape

Is a cold applied corrosion protection petrolatum tape



### Kebu Petro Tape A303

Is a cold applied corrosion protection petrolatum tape, a synthetic fiber fabric as an insert and a laminated PE film.



### Kebutyl-System C 50-C

Is a cold applied two-tape system according to EN 12068 (class C 50), DIN 30672 (class C 50) and ISO 21809-3 type 12A-1 (Tmax 50°C)



## ■ CONSULT WITH US FOR SPECIFIC PROJECTS OR UNIQUE OFFERINGS

The product information shown here our application recommendations and other product related documents are made for your convenience only. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith.

All information contained in this document is to be used as a guide and does not constitute a warranty of specification. The information contained in the document is subject to change without notice.

For this reason, no liability can be accepted for inaccurate advice or any failure to provide advice. The user is responsible for checking the applications of the product and verifying its suitability for the intended use.

This is the original translation of product information from the english language.

In case of any discrepancy or any dispute arising on the interpretation of this product information, the english text of the respective english product information, which is available at [www.dkd-korporation.com](http://www.dkd-korporation.com), shall be decisive.

The legal relationship shall be governed by Polish law.

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