

# PRODUCT DATA SHEET

ORIGINAL  
**kebu**<sup>®</sup>

## Kebulen Heat shrinkable sleeve MSM C50 (mastic adhesive)



**Kebulen Heat shrinkable sleeve MSM C50** is a hot applied shrink sleeve according to EN12068, DIN 30672, ISO 21809-3. Kebulen HSS MSM C50 meets the standard classifications C50 for operating temperatures up to 85°C. The carrier of Kebulen Heat shrinkable sleeve MSM C50 stands out due to high tearing resistance and robustness against overheating during application with open flame. It provides reliable corrosion protection due to its outstanding mechanical strength and its low permeability to moisture and oxygen.



DIN-DVGW-Reg.-Nr.: NV-5180DM0201

### ■ STRUCTURE

**Kebulen Heat shrinkable sleeve MSM C50** consists of a carrier made of stabilized, cross -linked polyethylene which is coated on the inside with permanently plastic material based on a polymer-modified bitumen. After professional preparation of the pipe surface the shrinkable sleeve doesn't require any primer. Due to the composition of the carrier, the sleeve is also suitable for above-ground applications.

### ■ SPECIAL ADVANTAGES

High tearing resistance  
**Mastic adhesive (polymer-modified bitumen based)**  
Resistant to soil stress  
**Doesn't require primer**  
Superior in-ground performance

**Standard classification:**

**DIN EN 12068 - C50**  
**ISO 21809-3- Typ 14A-1**  
**DIN 30 672- C 50**

### ■ AREA OF APPLICATION



**Kebulen Heat shrinkable sleeve MSM C50** is compatible with factory coatings of PE, PP, epoxy resin, PU and bitumen and ductile steel pipes. It can be used for Field Joint Coating, Coating Rehabilitation and Coating Repair.

### ■ FORMS OF DELIVERY

Roll goods Length 30 m without sealing flap  
Prefabricated sleeve incl. loose sealing flap  
Prefabricated sleeve with sewn-on sealing flap  
Width 450 mm

### ■ Other size and packaging options available upon request

### ■ PROPERTIES Kebulen Heat shrinkable sleeve MSM C50

Property	Unit	Typical values	Standard
Total thickness	mm	≈ 2,5	---
Thickness after shrinking	mm	≈ 3,0	---
Elongation at break	%	≥ 850	DIN EN 12068
Tensile strength	N/mm	≥ 40	DIN EN 12068
	MPa	≥ 30	DIN EN 12068
	MPa	≥ 15	ASTM D 1000
Hardness	Shore D	≥ 45	DIN 53505/ISO 868
Shrinking rate	%	25	20 min at 160°C Free shrinking
Impact resistance	J	≥ 15	DIN EN 12068
	J/mm	≥ 6	ISO 21809-3
Indentation resistance	N/mm <sup>2</sup>	23°C	DIN EN 12068
		50°C	
-pressure		≥ 10	ISO 21809-3
-residual layer thickness	mm	≥ 2,0	≥ 1,0
Cathodic disbondment resistance	mm	23°C	DIN EN 12068
		50°C	
Radius 50°C		≤ 8	ISO 21809-3
Peel strength		23°C	50°C
-on pipe surface at 10 mm/min	N/mm	≥ 5,0	≥ 0,4
-on factory coating at 10 mm/min	N/mm	≥ 5,0	≥ 0,2
Lap shear strength at 10 mm/min	N/mm <sup>2</sup>	23°C	DIN EN 12068
		50°C	
		≥ 0,5	≥ 0,06
-on pipe surface		≥ 0,5	≥ 0,06
-on PE/PP- factory coating		≥ 0,5	≥ 0,06

## ■ PACKAGING, STORAGE AND TRANSPORTATION

**Packaging:** carton / PE, packing is not returned after use.

**Storage:** in original packaging, in a dry place without load in a horizontal position, in warehouses, open areas under a canopy, protected from sunlight and atmospheric precipitation. When storing the **Kebulen Heat shrinkable sleeve MSM C50** and transporting it to the work site, store and transport in an upright position.

Shelf life in original packaging is  $\geq 24$  months from the date of manufacture.

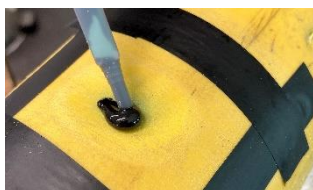
Storage temperature: min  $-10^{\circ}\text{C}$ , max  $+50^{\circ}\text{C}$ .

**Transportation:** on/without pallets, in original packaging, by all means of transport.

## ■ RELATED PRODUCTS

### Kebudur PU Repair

Kebudur PU Repair is a two-component polyurethane system for repairing defects and mechanical damage to PE and PP factory coatings, as well as for polyurethane coatings on fittings and pipelines.



### Kebulen patches C 50

Hot applied defect patch meeting DIN EN 12068 and DIN 30 672, load class C, continuous operating temperature up to  $50^{\circ}\text{C}$ .



### Kebu repair stick

The Kebu repair stick is a repair product made of modified polyethylene and is suitable for repairing minor damage (max. 10 mm x 10 mm) on PE factory coatings.



## ■ 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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