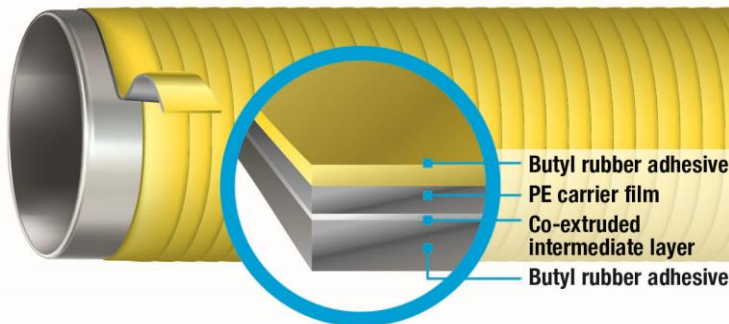


BUTYLEN-AS40 Plus



Product information



Special advantages

- Real co-extruded 3-ply tape.
- Proven corrosion prevention technology for more than 40 years.
- Easy processing through adaptable and highly tear-resistant carrier film.
- DIN-DVGW approved system: **B 50** and **C 50** (EN 12068, DIN 30672).
- Compatible with factory coatings made of PE, PP, FBE, PU, CTE and bitumen.
- For temperatures up to +85 °C (+185 °F).

Single tape system for the corrosion prevention coating of metal pipes and pipelines in accordance with DIN 30672, EN 12068, ASTM and AWWA. Corrosion prevention system proven for decades – for high mechanical and corrosive stresses.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

Description

BUTYLEN-AS40 Plus is a cold applied single tape system for the corrosion prevention of metal pipes and pipelines in high mechanical and corrosive stress classes.

With its outstanding properties, **BUTYLEN-AS40 Plus** is the proven corrosion prevention technology for cold applied corrosion prevention tapes since 1972. Due to the innovative formula, the tapes grow completely together in the overlapping area and create a long-lasting hose-type coating.

BUTYLEN-AS40 Plus is a system approved by DIN-DVGW and it can be processed, depending on the protection class, three-layer (**B 50**) or four-layer (**C 50**).



Approved by:

Standard designation (four-layer):
(Reg.No.:NV5180AL0188)

- EN 12068 – **C 50**
- DIN 30672 – **C 50**

Standard designation (three-layer):

(Reg.No.:NV5180AR0756)

- EN 12068 – **B 50**
- DIN 30672 – **B 50**

BUTYLEN-AS40 Plus is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes.

BUTYLEN-AS40 Plus is compatible with factory coatings made of PE, PP, FBE, PU, CTE and Bitumen.

The system **BUTYLEN-AS40 Plus** consists of:

BUTYLEN-HT Primer

A solvent containing primer in accordance with EN 12068 and DIN 30672 for the corrosion prevention with **BUTYLEN** tapes. Please refer to the separate product information of the **BUTYLEN-HT**.

BUTYLEN-AS40 Plus

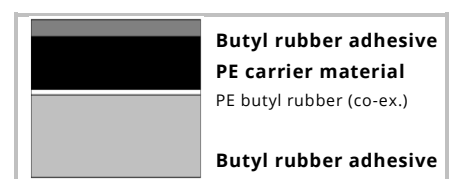
A real co-extruded 3-ply plastic tape made from stabilized polyethylene carrier film with butyl rubber adhesive.

BUTYLEN-AS40 Plus fulfills the international standards DIN 30672, EN 12068, ASTM and AWWA.

Supplementary products:

BUTYLEN-W and **-WP Mastic** as permanently plastic formable butyl rubber mastic for the equalization of unevennesses and cavities.

DEPROTEC®-DRM PP rockschildes and rockshield hose made of polypropylene non-woven material for the additional mechanical protection of **BUTYLEN** coatings with shock absorbing and load distributing effects.



BUTYLEN- AS40 Plus

Universal Corrosion Coatings Pty. Ltd.

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Typical product properties

Property	Unit	BUTYLEN-AS40 Plus Typical value	Test method
Carrier film color	-	Black	-
Butyl adhesive color inside	-	Grey	-
Butyl adhesive color outside	-	Black or yellow	-
Total thickness	mm	≥ 0.8	ISO 4591 ASTM D1000
Carrier film thickness app.	mm	≥ 0.28	
Inside adhesive layer thickness app.	mm	≥ 0.5	
Outside adhesive layer thickness app.	mm	≥ 0.02	
Elongation at break	%	≥ 600	DIN 30672
Tape strength	+23°C (+73.4°F) N/cm	≥ 100	EN 12068
Dielectric strength	kV/mm	≥ 35	DIN 53481
Water absorption	+23°C (+73.4°F) 1 day / 30 days %	≤ 0.1 / ≤ 0.4	DIN 53495 ASTM D570
Water vapor permeability	g/m ² 24h	≤ 2 10 ⁻¹	DIN 53122
Brittleness temperature	°C (°F)	-46±4 (-50.8±7.2)	DIN 53372
		-58±4 (-72.4±7.2)	GOST 10354

BUTYLEN-AS40 Plus (3 & 4 layers) with BUTYLEN-HT Primer

Property	Unit	BUTYLEN-System AS40 Plus Typical value		Required value	Test method
Specific electrical insulation resistance	Ω m ²	≥ 10 ¹⁰		≥ 10 ⁸	EN 12068
Volume resistivity	Ω cm	≥ 10 ¹⁵		Not stated	DIN 53482 ASTM D257
Peel resistance metal/prime coat/AS40 Plus	N/cm	+23°C (+73.4°F)	+50°C (+122°F)	≥ 10 ≥ 1	EN 12068
		≥ 25	≥ 2.5		
Peel resistance layer to layer AS40 Plus / AS40 Plus	N/cm	+23°C (+73.4°F)	+50°C (+122°F)	Not stated	ASTM D1000
		≥ 33	≥ 2.5		
Indentation resistance - residual layer 4 layer (Stamp-Ø 1.80 mm - 10 N/mm ²)	mm	+50°C (+122°F)		≥ 10 ≥ 2	EN 12068
		≥ 0.8 (fulfills class C)			
3 layers (Stamp-Ø 5.65 mm - 1 N/mm ²)	mm	≥ 0.8 (fulfills class B)		> 0.6	EN 12068
Impact resistance (4 layer)/(3 layer)	J	≥ 15 (class C) / ≥ 10 (class B)		≥ 15 / ≥ 10	EN 12068
Cathodic disbondment resistance	mm	≤ 6		Not stated	ASTM G8
Lap shear strength	N / cm ²	+23°C (+73.4°F)		≥ 5	EN 12068
		on steel			
		on factory coating			
		≥ 15		≥ 5	

BUTYLEN tapes can be easily applied manually. The processing with the original **DEKOMAT**[®] wrapping devices is even more efficient. For BUTYLEN tapes with widths of > 50 mm, we recommend the use of the **DEKOMAT**[®] wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

BUTYLEN[®]-AS40 Plus, Core Ø 41 mm

Tape width (mm)	Tape length (m)	Tape area (m ² /roll)	Number of rolls	Content per box		App. Weight (kg)
				Total tape area (m ²)	Total tape length (m)	
30	15	0.45	18	8.1	270	9.3
50	15	0,75	12	9	180	10.2
100	15	1.5	6	9	90	10.2
150	15	2.25	6	13.5	90	15.3

Additional lengths and widths are available on request.