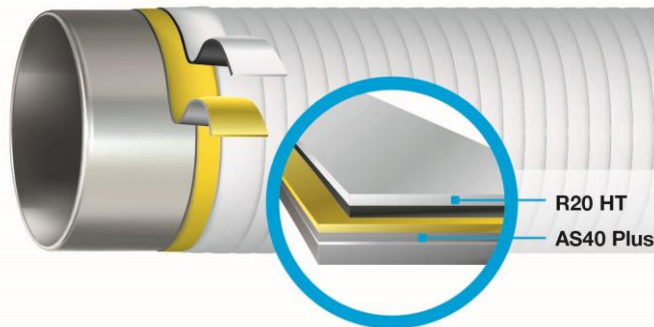


# BUTYLEN-AS40 Plus/-R20 HT



## Product information

### Special advantages:



For temperatures up to +85°C (+185°F).



Real co-extruded three-ply tape as the inner layer and two-layer tape as the outer layer.



Fulfills the requirements of EN 12068-C50, DIN 30672-C50 and ISO 21809-3; Type 12A-1.



Excellent mechanical protection and excellent corrosion prevention.



Compatible with factory coatings made of PE, PP, FBE, PU, CTE and bitumen.

## Two-tape system for the corrosion prevention coating of metal pipes and pipelines in accordance with DIN 30672 and EN 12068.

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/-R20 HT** is a cold applied two-tape system for the corrosion prevention of metal pipes and pipelines in extreme corrosion conditions and mechanical stresses. Compared to the single tape system **BUTYLEN-AS40 Plus**, a robust and UV resistant surface of the encasement is achieved with the outside tape **BUTYLEN-R20 HT**.

BUTYLEN-AS40 Plus/-R20 HT provides a self-amalgamation of the tapes in the overlapping area, which means that a tight and durable hose-type encasement is established.

BUTYLEN-AS40 Plus/-R20 HT is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes. BUTYLEN-AS40 Plus/-R20 HT is compatible with factory coatings made of PE, PP, FBE, PU, CTE and Bitumen.

The system **BUTYLEN-AS40 Plus/-R20 HT** consists of:

### **BUTYLEN-HT Primer**

A solvent containing primer in accordance with EN 12068 and DIN 30672 for the corrosion prevention with **BUTYLEN** tapes.

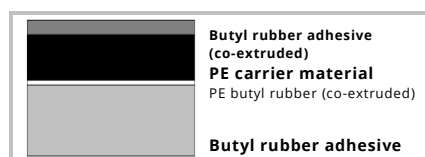
### **BUTYLEN-AS40 Plus**

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

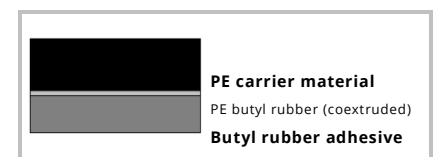
### **BUTYLEN-R20 HT**

A real co-extruded two-ply plastic tape made from stabilized polyethylene carrier film with a butyl rubber adhesive on one side.

The outstanding connection between the adhesive and the carrier film is guaranteed by the co-extruded intermediate layer. The adhesive layer grows completely together with the outside layer of **BUTYLEN-AS40 Plus**.



BUTYLEN-AS40 Plus



BUTYLEN-R20 HT

## Typical product properties

Property	Unit	BUTYLEN-AS40 Plus Typical value	BUTYLEN-R20 HT Typical value	Test method
Carrier film color	-	black, yellow or blue	white, black or blue	-
Butyl adhesive color inside	-	grey	black	-
Butyl adhesive color outside	-	Black	-	-
Tape thickness	mm	≥0.8	≥0.5	ISO 4591 ASTM D1000
Carrier film thickness app.	mm	≥0.28	≥0.3	
Inside adhesive layer thickness app.	mm	≥0.44	≥0.2	
Outside adhesive layer thickness app.	mm	≥0.08	-	
Elongation at break	%	≥600	≥500	DIN 30672
Tape strength	+23°C (+73°F) N / cm	≥100	≥65	EN 12068
Dielectric strength	kV / mm	≥40	≥35	DIN 53481
Water absorption	+23°C (+73°F) 1 day / 30 days %	≤0.1 / ≤0.4	≤0.1 / ≤0.4	DIN 53495 ASTM D570

### BUTYLEN-AS40 Plus/-R20 HT with BUTYLEN-HT Primer

Property	Unit	BUTYLEN-AS40 Plus/R20 HT Typical value		Required value		Test method
Specific electrical insulation resistance	Ohm m <sup>2</sup>	≥10 <sup>10</sup>		≥10 <sup>8</sup>		EN 12068
Volume resistivity	Ohm cm	≥10 <sup>15</sup>		Not stated		DIN 53482 ASTM D257
Peel resistance metal/primer/tape	N / cm	<b>+23°C (+73°F)</b>	<b>+50°C (+122°F)</b>	<b>+23°C(+73°F)</b>	<b>+50°C(+122°F)</b>	EN 12068 ASTM D1000
		≥25	≥3	≥10	≥1	
Peel strength layer to layer	N / cm	<b>+23°C (+73°F)</b>	<b>+50°C (+122°F)</b>	Not stated		EN 12068
		≥30	≥4	≥10	≥2	
AS40 PLUS / AS40 PLUS	N / cm	≥30	≥3	≥2	≥2	EN 12068
AS40 PLUS / R20 HT		≥3	≥3	≥2	≥2	
R20 HT / R20 HT		≥3	≥3	≥2	≥2	
Indentation resistance - residual layer thickness at stamp load 10 N/mm <sup>2</sup> (stamp-Ø 1.8 mm)	mm	<b>+50°C (+122°F)</b>		≥0.6		EN 12068
		≥1.1	0.4 / 10			
Impact resistance	J	≥16		≥15		EN 12068
Cathodic disbondment resistance	mm	<6		<20		EN 12068
Lap shear strength	N / cm <sup>2</sup>	<b>+23°C (+73°F)</b>		≥5		EN 12068
		on steel	≥15			
		on factory coating	≥15			

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

## Ordering information and packaging

		Width [mm]	Tape length [m]	Tape area per roll (m <sup>2</sup> )	Number of rolls	Content per box		
						Total tape area (m <sup>2</sup> )	Total tape length (m)	App. weight (kg)
<b>BUTYLEN-AS40 Plus</b>	Core Ø 41 mm	30	15	0.45	16	8	270	7.0
		50	15	0.75	12	9	180	9.0
		100	15	1.5	6	9	90	10.2
	Core Ø 78 mm	100	70	7	3	21	210	19.0
		150	70	10.5	2	21	140	19.0
<b>BUTYLEN-R20 HT</b>	Core Ø 41 mm	50	30	1.5	12	18	360	11.0
		100	30	3.0	6	18	180	11.0
	Core Ø 78 mm	100	70	7	3	21	210	13.0
		150	70	10.5	2	21	140	13.0

Additional lengths and widths are available on request.

## Storage

When stored in its original, unopened packaging, **BUTYLEN-AS40 Plus/-R20 HT** can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

Store in a dry location and do not rest anything against the front of the product.

## DEKOTEC GmbH

Felderstrasse 24 | 51371 Leverkusen | Germany  
Phone: +49 214 2602-0 | [info@dekotec.com](mailto:info@dekotec.com)  
[www.dekotec.com](http://www.dekotec.com)

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