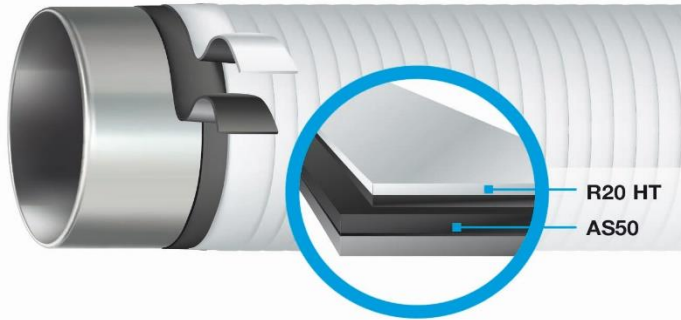


# BUTYLEN-AS50/-R20 HT

## Product information

**SPECIALIZED**  
COATING SYSTEMS



### Special advantages:

- ✓ Maximum mechanical protection and maximum corrosion prevention.
- ✓ Exceeds the requirements of stress class C 50 in accordance with EN 12068.
- ✓ **C50**  
EN 12068 Fulfills EN 12068-C50 and DIN 30672-C50.
- ✓ **12A-1**  
ISO 21809-3 Fulfills the requirements of ISO 21809-3; Type 12A-1.
- ✓ **≤ 85°C** For temperatures up to +85°C (+185°F).
- ✓ 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, EN 12068. For extreme corrosion conditions and extreme mechanical 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-AS50/-R20 HT** is a cold applied two-tape system for the corrosion prevention of metal pipes and pipelines with outstanding properties.

An indentation resistance of  $\geq 1.2$  mm, which exceeds the requirements of  $\geq 0.6$  mm for stress class C by 100% and an impact resistance of  $\geq 20$  J are proof for the uniqueness of this tape system.

BUTYLEN-AS50/-R20 HT is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes.

BUTYLEN-AS50/-R20 HT is compatible with factory coatings made of PE, PP, FBE, PU, CTE and Bitumen.

The system **BUTYLEN-AS50/-R20 HT** consists of:

### BUTYLEN-HT Primer

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

### BUTYLEN-AS50

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

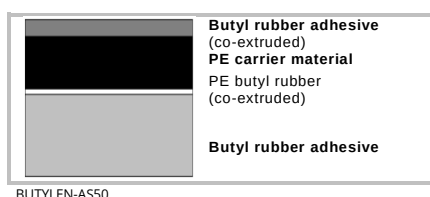
**BUTYLEN-AS50** has a thickness of  $\geq 1.1$  mm. **BUTYLEN-AS50** fulfills the international standards DIN 30672, EN 12068, ASTM and AWWA.

### BUTYLEN-R20 HT

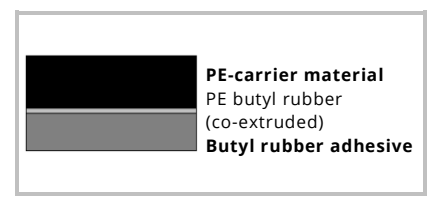
A real co-extruded two-ply plastic tape made from stabilized white polyethylene carrier film with a butyl rubber adhesive on one side. Outstanding connection between the adhesive and the carrier film is guaranteed by the co-extruded intermediate layer.

The adhesive layer grows completely together with the outside layer of **BUTYLEN-AS50**.

**BUTYLEN-R20 HT** fulfills the international standards DIN 30672, EN 12068, ASTM and AWWA.



BUTYLEN-AS50



BUTYLEN-R20 HT

## Typical product properties

| Property                              | Unit                                  | BUTYLEN-AS50 Typical value | BUTYLEN-R20HT Typical value | Test method            |
|---------------------------------------|---------------------------------------|----------------------------|-----------------------------|------------------------|
| Carrier film color                    | -                                     | Black                      | White                       | -                      |
| Butyl adhesive color inside           | -                                     | Gray                       | Black                       | -                      |
| Butyl adhesive color outside          | -                                     | Black                      | -                           | -                      |
| Total thickness                       | mm                                    | ≥ 1.1                      | ≥ 0.5                       | ISO 4591<br>ASTM D1000 |
| Carrier film thickness app.           | mm                                    | ≥ 0.5                      | ≥ 0.3                       |                        |
| Inside adhesive layer thickness app.  | mm                                    | ≥ 0.5                      | ≥ 0.2                       |                        |
| Outside adhesive layer thickness app. | mm                                    | ≥ 0.1                      | -                           |                        |
| Elongation at break                   | %                                     | ≥ 550                      | ≥ 550                       | DIN 30672              |
| Tape strength                         | +23°C (+73°F)<br>N / cm               | ≥ 95                       | ≥ 65                        | EN 12068               |
| Dielectric strength                   | kV / mm                               | ≥ 40                       | ≥ 35                        | DIN 53481              |
| Water absorption                      | +23°C (+73°F)<br>1 day / 30 days<br>% | ≤ 0.1 / ≤ 0.4              | ≤ 0.1 / ≤ 0.4               | DIN 53495<br>ASTM D570 |
| Brittleness temperature               | °C (°F)                               | -46±4 (-50.8±7.2)          | -46±4 (-50.8±7.2)           | DIN 53372              |
|                                       |                                       | -58±4 (-72.4±7.2)          | -58±4 (-72.4±7.2)           | GOST 10354             |

### BUTYLEN-AS50/-R20 HT with BUTYLEN-HT Primer

| Property                                                                                                   | Unit                | BUTYLEN-AS50/-R20HT<br>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<br>ASTM D257 |
| Peel resistance<br>metal/primer/tape                                                                       | N / cm              | +23°C (+73°F)<br>≥ 30                                  | +50°C (+122°F)<br>≥ 2.5 | ≥ 10              | ≥ 1 | EN 12068               |
|                                                                                                            |                     | ≥ 33                                                   | ≥ 2.5                   | Not stated        |     | ASTM D1000             |
| Peel strength layer to layer                                                                               | N / cm              | +23°C (+73°F)<br>≥ 30                                  | +50°C (+122°F)<br>≥ 4   | ≥ 15              | ≥ 2 | EN 12068               |
| AS50 / AS50                                                                                                |                     | ≥ 25                                                   | ≥ 3                     | ≥ 15              | ≥ 2 |                        |
| AS50 / R20 HT                                                                                              |                     | ≥ 3                                                    | ≥ 3                     | ≥ 2               | ≥ 2 |                        |
| R20 HT / R20 HT                                                                                            |                     |                                                        |                         |                   |     |                        |
| Indentation resistance - residual layer<br>thickness at stamp load 10N/mm <sup>2</sup><br>(stamp-Ø 1.8 mm) | mm                  | +50°C (+122°F)<br>≥ 1.2<br>(Class C exceeded by 100%!) |                         | > 0.6             |     | EN 12068               |
|                                                                                                            |                     |                                                        |                         |                   |     |                        |
| Impact resistance                                                                                          | J                   | ≥ 20                                                   |                         | ≥ 15              |     | EN 12068               |
| Cathodic disbondment resistance                                                                            | mm                  | ≤ 6                                                    |                         | Not stated        |     | ASTM G8                |
| Lap shear strength                                                                                         | N / cm <sup>2</sup> | +23°C (+73°F)<br>≥ 15                                  |                         | 5                 |     | EN 12068               |
| on steel                                                                                                   |                     | ≥ 15                                                   |                         | 5                 |     |                        |
| 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

|                                   | Width [mm] | Tape length [m] | Tape area per roll (m <sup>2</sup> ) | Content per box |                                   |                       |                  |
|-----------------------------------|------------|-----------------|--------------------------------------|-----------------|-----------------------------------|-----------------------|------------------|
|                                   |            |                 |                                      | Number of rolls | Total tape area (m <sup>2</sup> ) | Total tape length (m) | App. weight (kg) |
| <b>BUTYLEN-AS50</b> core Ø41 mm   | 50         | 10              | 0.5                                  | 12              | 6                                 | 120                   | 9.5              |
|                                   | 100        | 10              | 1.0                                  | 6               | 6                                 | 60                    | 8.0              |
|                                   | 150        | 10              | 1.5                                  | 6               | 9                                 | 60                    | 12.0             |
| <b>BUTYLEN-AS50</b> core Ø78 mm   | 100        | 50              | 5                                    | 3               | 15                                | 150                   | 18.5             |
|                                   | 150        | 50              | 7.5                                  | 2               | 15                                | 100                   | 18.5             |
| <b>BUTYLEN-R20 HT</b> core Ø41 mm | 50         | 30              | 1.5                                  | 12              | 18                                | 360                   | 11.0             |
|                                   | 100        | 30              | 3.0                                  | 6               | 18                                | 180                   | 11.0             |
|                                   | 150        | 30              | 4.5                                  | 6               | 27                                | 180                   | 17.0             |
| <b>BUTYLEN-R20 HT</b> core Ø78 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-AS50/-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.



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