



KEBULEN- PATCH C50

Patches for small damages of coatings in accordance with
DIN EN 12068 and DIN 30 672

Load class C, max. operating temperature 50 °C

DIN-DVGW-Registration No. NV-5180BN0034



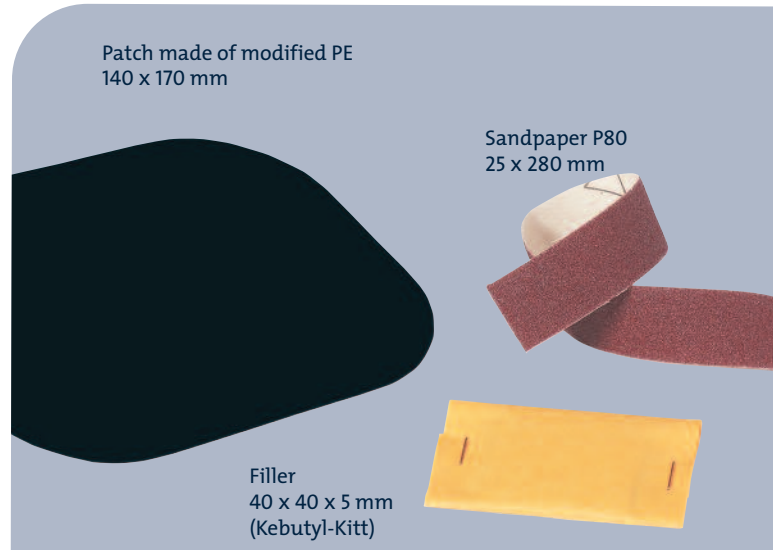
PRODUCT INFORMATION

GENERAL

Kebulen-Patch C50 is a hot-applied patch in accordance with DIN EN 12068 and DIN 30 672.

It is used for repairing minor mechanical damages (defects – up to a few cm² or grooves) of mill coatings made of polyethylene or polypropylene. It is suitable for all buried or submerged pipelines made of low-alloy iron materials.

Due to its low permeability to water vapour and oxygen **Kebulen-Patch C 50** provides reliable corrosion protection.



STRUCTURE

Kebulen-Patch C 50 consists of a stabilised cross-linked polyethylene carrier coated with a hot melt adhesive.

PACKAGE

Set includes:

1. Patch made modified polyethylene, approx. 140 x 170 mm
2. Filler, approx. 40 x 40 x 5 mm (**Kebutyl-Kitt**)
3. Sandpaper P80, approx. 35 x 280 mm

Sets/box: 15 units

| Roll | Length/m | Width/mm | Rolls per box |
|-----------------------|----------|----------|---------------|
| Modified polyethylene | 15 | 150 | 2 |
| | 15 | 300 | 1 |
| | 30 | 150 | 2 |



APPLICATION

Remove the damaged coating. Cut disbonded and off-standing parts of the factory coating until solid coating appears. Bevel the edges using semi-circular rasps which have proved suitable for this purpose.

To achieve a void-free coating roughen about 100 mm of the factory coating around the cutback area.

The area to be coated as well as the adjacent factory coating must be dry (preheat the substrate above dew point), free of loose particles of rust, dirt etc. or any traces of oil, grease or release agents.

You will find detailed application information with every set of patches.

TECHNICAL DATA

Meets the requirements of DIN 30 672 (Dec. 2000) for hot-applied patches.

| Characteristics Kebulen-Patch C 50 | Unit | Requirements acc. to DIN 30 672 | Actual Value |
|---|--------------------|------------------------------------|-------------------|
| Thickness | | | |
| a) carrier | mm | - | 0.8 |
| b) thermoplastic adhesive | mm | - | 0.45 |
| Total thickness | mm | - | 1.25 |
| Impact resistance *) | Nm | ≥ 15 | 16 |
| Indentation resistance *) | | | |
| Thickness of residual coating | mm | ≥ 0.6 | 0.8 |
| Specific electrical insulation resistance | Ohm m ² | ≥ 10 ⁸ | >10 ¹⁰ |
| Cathodic disbondment *) | mm | ≤ 20 | 3 |
| Peel to factory coating | | | |
| a) at 23° C | N/mm | 0.4 | 10 |
| b) at 50° C | N/mm | 0.04 | 1.5 |
| Lap shear to factory coating | | | |
| a) at 23° C | N/mm ² | - | 1,0 |
| b) at 50° C | N/mm ² | 0.25 | 0.27 |
| Saponification value | | | |
| - carrier | mg KOH/g | ≤ 25 | < 2 |
| - coat | mg KOH/g | ≤ 25 | 14 |
| Elongation | % | - | 600 |
| Tensile strength | N/mm | - | 28 |
| Resistance to thermal ageing (100d, 70° C) ratio of | | | |
| - tape strength | | S ₁₀₀ /S ₇₀ | ≥ 0.90 |
| - elongation at break | | E ₁₀₀ /E ₇₀ | ≥ 0.90 |

*) with 2 mm bed of Kebutyl-Kitt



RANGE OF PRODUCTS

kebu is certified to be in conformance with DIN EN ISO 9001.

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Our product range includes:

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- Shrinkable tubular sleeves
- Synthetic patches
- Synthetic resins:
Unsaturated vinyl ester resin
- Kebudur HT 80- System
Butyl rubber combined with GRP
(glassfibre reinforced plastic)

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The information given in this publication is based on our knowledge and experience. The hints and instructions for use given therein have been compiled to the best of our knowledge on the basis of our tests and experience. Best results will be obtained if our products are used in a proper and expert way. Any protected rights and existing laws and regulations must be complied with by the recipient of our products under own responsibility. In all other respects our general terms and conditions shall apply.

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