

## PRODUCT INFORMATION

# Asplit<sup>®</sup> LC Laminate

### PRODUCT DESCRIPTION

**Asplit LC Laminate** is a black, approx. 3 mm thick; glass mat reinforced lining system based on a phenol resin. **Asplit LC Laminate** is electrically conductive by using a hybrid mat.

### FIELDS OF APPLICATION

**Asplit LC Laminate** can be applied on EP-Coatings, foils or rubber linings. Steel and concrete surfaces must be primed with **Asplit 876 Primer** before application.

### FEATURES

- Excellent chemical resistance, especially against acids and solvents
- High temperature resistance up to +100 °C (dry)
- Electrically conductive

### CHEMICAL DESCRIPTION

Information on the chemical request is available on request.

### SUBSTRATE

Components shall be designed and manufactured in accordance with EN 14879-1. Before **Asplit LC Laminate** is applied, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.

### SURFACE PRE-TREATMENT

Steel and concrete surfaces must be primed with **Asplit 876 Primer** before application.

If a sealing layer of foil, rubber or EP-Coating is present, **Asplit LC Laminate** can be directly applied on the sealing layer. Unevenness should be compensated in the ground.

#### C-Steel

All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN Fachbericht # 28 and EN ISO 8502.

Ferretic steel surfaces shall be abrasive blasted to "Near White Metal". A standard preparation degree of SA 2½ according EN ISO 12944-4 must be achieved. To prevent flash rust, the primer must be applied immediately after the blasting and cleaning of the substrate.

#### Concrete

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum peel strength of 1.5 MPa. The residual moisture content must not exceed 4%.

A mechanical treatment by blasting with solid abrasives, high pressure water blasting or shot blasting is recommended. After milling, flame blasting or prying a blasting is also required.

### PROCESSING

#### Environmental Conditions

| Environmental Conditions | Value                     |
|--------------------------|---------------------------|
| Relative Humidity        | max. 80%                  |
| Surface Temperature      | min. +10 °C / max. +30 °C |
| Application Temperature  | +20 ± 5 °C is recommended |
| Dew Point Distance       | ≥ 3K                      |

#### Equipment

The following list of equipment is essential for the application of **Asplit LC Laminate**:

- Stirrer (max. 300 r/min.)
- Measuring cup
- Mixing vessels
- Brushes, wide brushes
- Rollers
- Laminate roller
- Scissor
- PSA (safety glasses, rubber gloves etc.)

#### Mixing Primer

**Asplit 876 Primer** must be agitated before adding the **Asplit 876 Hardener** in the recommended ratio. The stirring of the merged components should be at least 3 minutes and must result in a homogeneous mixture. Then pour the mixture into a clean pail and mix again briefly.

#### Mixing LC Laminate Solution

**Asplit LC Solution** must be agitated before adding the **Asplit LC Hardener** in the recommended ratio. The stirring of the merged components should be at least 3 minutes and must result in a homogeneous mixture. Then pour the mixture into a clean pail and mix again briefly.

#### Mixing Ratio

| Primer                     | Kg                 | Parts per weight | Parts per volume |
|----------------------------|--------------------|------------------|------------------|
| <b>Asplit 876 Solution</b> | 0.815 kg           | 100              | 0.87 L           |
| <b>Asplit 876 Hardener</b> | 0.325 kg           | 40               | 0.36 L           |
|                            | 1.140 kg = 1 Liter |                  |                  |
| <b>Asplit LC Laminate</b>  | Kg                 | Parts per weight | Parts per volume |
| <b>Asplit LC Solution</b>  | 1.000 kg           | 100              | 1.00 L           |
| <b>Asplit LC Hardener</b>  | 0.160 kg           | 16               | 0.16 L           |
|                            | 1.160 kg = 1 Liter |                  |                  |

#### Application

**Asplit 876 Primer** is applied twice (undiluted) by using brushes, wide brushes or rollers. If the overworking time is > 24

hours, the last coat must be sanded in fresh state with dry quartz sand (0.3 – 0.7 mm) – if no sanding is carried out – it must be grinded.

**Asplit LC** laminating solution is applied on the surface by using a roller and then the first 450 g/m<sup>2</sup> glass mat is pressed fresh in fresh – with an overlapping width of approx. 5 cm – and rolled on bubble free by using a roller, saturated with **Asplit LC** laminating solution. The remaining air must be removed by using a laminate roller. The second 450 g/m<sup>2</sup> glass mat is pressed - with an overlapping width of approx. 50 cm – on the uncured layer, soaked with **Asplit LC** laminate solution again and rolled on bubble free by using a roller, saturated with **Asplit LC** laminating solution. The remaining air must be removed again by using a laminate roller. Finally, a 30 g/m<sup>2</sup> surface veil is applied on the second glass mat fresh in fresh and bubble free.

To improve the slip resistance of **Asplit LC Laminate**, the fresh laminate coating can be sanded with silicon carbide (0.5mm; Consumption: 1.5 kg/m<sup>2</sup>).

#### Conductivity

If **Asplit LC Laminate** should be conductive, a 280 g/m<sup>2</sup> hybrid fleece must be applied on the second glass mat instead of the 30 g/m<sup>2</sup> surface veil.

#### Consumption

| Layer                     | Consumption   |
|---------------------------|---|
| <b>Asplit 876 Primer</b>  | approx. 250 g/m <sup>2</sup> (steel)<br>approx. 300 – 350 g/m <sup>2</sup> (concrete) |
| <b>Asplit LC Laminate</b> | approx. 2600 g/m <sup>2</sup><br>(*approx. 3300 g/m <sup>2</sup> )                    |

\* When processing a hybrid fleece

#### Pot Life

| Temperature | Asplit LC Laminate |
|-------------|--------------------|
| 20 °C       | approx. 20 min.    |

#### Curing

| Load Capacity | Time                        |
|---------------|-----------------------------|
| Over workable | approx. 24 hours (at 20 °C) |
| Accessible    | approx. 48 hours (at 20 °C) |

| Technical Data                     | Standard          | Unit              | Value                          |
|------------------------------------|-------------------|-------------------|--------------------------------|
| Density <b>Asplit LC Laminate</b>  | DIN EN ISO 2811-1 | g/cm <sup>3</sup> | 1.2                            |
| Adhesion Strength Steel / Concrete | -                 | N/mm <sup>2</sup> | 3 / inherent adhesive strength |
| Hardness Shore D                   | -                 | -                 | > 60                           |
| Resistance to Ground               | DIN 28052-6       | Ω                 | ≤ 1 x 10 <sup>6</sup>          |
| Max. Operating Temperature Dry     | -                 | °C                | +100                           |

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.

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#### Cleaning

Clean all equipment immediately after use with **Asplit Universal Cleaner**. The cleaning is carried out as long as the material is not cured.

#### SAFETY MEASURES

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

#### PACKING UNITS

The products are supplied in the following standard package sizes:

| Product                         | Size   | Product-No. |
|---------------------------------|--------|-------------|
| <b>Asplit 876 Solution</b>      | 20 kg  | 592 0605    |
| <b>Asplit 876 Hardener</b>      | 8 kg   | 592 0615    |
| <b>Asplit LC Solution</b>       | 20 kg  | 592 0820    |
| <b>Asplit LC Hardener</b>       | 10 kg  | 592 0830    |
| <b>Asplit Universal Cleaner</b> | 8.4 kg | 592 0900    |

#### STORAGE

The materials must be stored at a cool and dry place, protected from direct sunlight. At the specified storage temperatures a shelf life of the products is given of at least for the following periods:

| Product                    | Temperature | Shelf Life |
|----------------------------|-------------|------------|
| <b>Asplit 876 Solution</b> | ≤ +20 °C    | 24 month   |
| <b>Asplit 876 Hardener</b> | ≤ +20 °C    | 24 month   |
| <b>Asplit LC Solution</b>  | ≤ +20 °C    | 9 month    |
| <b>Asplit LC Hardener</b>  | ≤ +20 °C    | 24 month   |

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof.

|                              |                           |                            |
|------------------------------|---------------------------|----------------------------|
| Asplit GmbH                  | <b>Asplit LC Laminate</b> | Revision 1.01 – 10.06.2014 |
| Replaces all former editions | Product Information       | Page: 2/2                  |