

PRODUCT INFORMATION

Asplit® 876 Laminate

PRODUCT DESCRIPTION

Asplit 876 Laminate is a yellow-brown, approx. 3 mm thick, glass mat reinforced lining system based on an epoxy resin.

FIELDS OF APPLICATION

Asplit 876 Laminate can be used both on steel and on concrete surfaces. The coating is suitable for areas subjected to mechanical stresses.

The chemical resistance of **Asplit 876 Primer** is generally similar to **Asplit ET**, but it has a better resistance against organic acids and solvents.

FEATURES

- Direct adhering primer on steel and concrete surfaces
- Excellent chemical resistance
- High temperature resistance up to +160°C (dry)

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 876 Laminate** is applied, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.

SURFACE PRE-TREATMENT

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 876 Laminate**:

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

Mixing

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 Ratio

Primer	Kg	Parts per weight	Parts per volume
Asplit 876 Solution	0.815 kg	100	0.87 L
Asplit 876 Hardener	0.325 kg	40	0.36 L
	1.140 kg = 1 liter		

Application

Asplit 876 Primer is only necessary if **Asplit 876 Laminate** is not applied directly after blasting. **Asplit 876** laminating solution is applied on the surface by using a roller and then the first 450 g/m² glass mat is pressed fresh in fresh - with an overlapping width of approx. 4 – 5 cm – and rolled on bubble free by using a roller, saturated with **Asplit 876** laminating solution. The remaining air must be removed by using a laminate roller. The second 450 g/m² glass mat is pressed - with an overlapping width of approx. 50 cm – on the uncured layer, soaked with **Asplit 876** laminate solution again and rolled on bubble free by using a roller, saturated with **Asplit 876** laminating solution. The remaining air must be removed again by using a laminate roller. Finally, a 30 g/m² surface veil is applied on the second glass mat fresh in fresh and bubble free.

To improve the slip resistance of **Asplit 876 Laminate**, the fresh laminate coating can be sanded with silicon carbide (0.5mm, Consumption 1.5 kg/m²).

Consumption

Substrate	Asplit 876 Laminate
Steel	approx. 2400 g/m ²
Concrete	approx. 2600 g/m ²

Pot Life

Temperature	Asplit 876 Laminate
20°C	approx. 60 min.

Curing

Asplit 876 Primer	Time
Over workable (without grinding)	approx. 18 - 48 hours (at 20°C)
Asplit 876 Laminate	Time
Over workable	approx. 18 hours (at 20°C)
Accessible	approx. 18 hours (at 20°C)

Cleaning

Clean all equipment immediately after use with **Asplit Cleaner N** or **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.

Technical Data	Standard	Unit	Value
Density Laminate	DIN EN ISO 2811-1	g/cm ³	1.20
Density Asplit 876 Solution	DIN EN ISO 2811-1	g/cm ³	1.15
Adhesion Strength (Steel / Concrete)	-	N/mm ²	> 7 / > 1.5
Hardness Shore D	-	-	> 70
Max. Operating Temperature Dry	-	°C	+160

PACKING UNITS

The products are supplied in the following standard package sizes:

Product	Size	Product-No.
Asplit 876 Solution	25 kg	592 0605
Asplit 876 Hardener	10 kg	592 0615
Asplit Cleaner N	25 kg	592 0920
Asplit Universal Cleaner	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
Asplit 876 Solution	≤ +20°C	24 month
Asplit 876 Hardener	≤ +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.

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.

Asplit GmbH, Heuweg 4, D-06886 Wittenberg

Phone: +49 (0) 3491 635-532 / Fax: +49 (0) 3491 635-552 / E-Mail: info@asplit.de

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