

PRODUCT INFORMATION

Asplit® FQ

PRODUCT DESCRIPTION

Asplit FQ is a two-component, cold curing synthetic mortar based on a furan resin with mineral fillers.

FIELDS OF APPLICATION

Asplit FQ is suitable for bedding and jointing of tiles, bricks and fittings made of ceramic or carbon for the production of chemical, thermal and mechanic resistant coatings and protective linings.

Main applications are tiling and brick linings in apparatuses for the chemical industry, waste water and process water treatment, in canals, pits and reservoirs, power plants, warehouses and workshops, neutralization- and pickling lines.

FEATURES

- High mechanical loads
- High temperature resistance up to +180°C
- Excellent chemical resistance to solvents and organic compounds

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 FQ** 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. The primer must be sanded in a fresh state after the final coat.

If a sealing layer of rubber or coating is present, **Asplit FQ** 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 FQ**

- Stirrer (max. 300 r/min.)
- Measuring cup
- Mixing vessels
- Brushes
- Mortar trowel
- Grouting tool
- PSA (safety glasses, rubber gloves etc.)

Mixing

Fill **Asplit FQ Solution** in a mixing vessel and add **Asplit FQ Powder** at the specified mixing ratio. The stirring of the merged components should be at least 3 minutes and must result in a homogeneous mixture.

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			
Asplit FQ	Kg	Parts per weight	Parts per volume
Asplit FQ Solution	0.34 kg	100	1.00 L
Asplit FQ Powder	1.86 kg	550	4.06 L
2.20 kg = 1 Liter			

Application

Asplit FQ is applied on the substrate or sealing layer by using a mortar trowel. Tiles and bricks must be free of voids, fully bedded and hollow jointed.

Consumption

Bedding and Jointing (Bed Joint 5mm / Cross Joint 5-7mm):

Material	Sizes	Consumption
Tiles	240 x 115 x 20 mm	approx. 18 kg/m ²
Tiles	240 x 115 x 40 mm	approx. 21 kg/m ²
Bricks	240 x 115 x 65 mm	approx. 25 kg/m ²
Bricks	240 x 115 x 80 mm	approx. 27 kg/m ²

Pot Life

Temperature	Asplit FQ
20 °C	approx. 60 min.

Curing

Load Capacity	Time
Accessible	approx. 24 hours (at 20 °C)
Chemical Load	approx. 8 days (at 20 °C)

Commissioning

To obtain optimum resistance of brick linings inside vessels - preferable to solvents - an after treatment with hot water (16 - 24 hours at 70 °C - 80 °C) is strongly recommended. In case of extended time period between completion of lining work and starting the apparatus, it is advisable to fill in slightly acid water to a third of its volume.

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.
Asplit 876 Solution	20 kg	592 0605
Asplit 876 Hardener	8 kg	592 0615
Asplit FQ Solution	20 kg	592 0300
Asplit FQ Powder	25 kg	592 0340
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
Asplit FQ Solution	≤ +20 °C	12 month
Asplit FQ Powder	-	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.

Technical Data	Standard	Unit	Value
Density finished mixture	DIN EN ISO 2811-1	g/cm ³	2.2
Compressive Strength	DIN EN ISO 604	N/mm ²	80
Adhesion on Bricks	DIN EN 4624	MPa	> 4
Dissipation Resistivity (to ground)	DIN EN ISO 1081	Ω	> 10 ⁹
Coefficient of Linear Expansion	-	K ⁻¹	21 x 10 ⁻⁶
Max. Operating Temperature Dry	-	°C	+180

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Asplit GmbH	Asplit FQ	Revision 1.00 – 11.06.2014
Replaces all former editions	Product Information	Page: 2/2