

PRODUCT INFORMATION

Asplit CN

PRODUCT DESCRIPTION

Asplit CN is a black, two-component, cold curing synthetic mortar based on a modified phenol resin with carbon fillers

FIELDS OF APPLICATION

Asplit CN 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.

FEATURES

- Excellent adhesion to ceramic and carbon bricks
- Extremely high chemical resistance, especially to acids, solvents and weak oxidizing chemicals
- The hardened mortar conducts electricity
- Suitable for linings, where a pre-stressing must be achieved

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Components shall be designed and manufactured in accordance with EN 14879-1. Before start of brick lining work, 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 CN** can be directly applied on the sealing layer. Unevenness should be compensated in the ground.

C-STEEL

Surfaces must be clean, dry and free of contaminants. All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN TR 55684 and EN ISO 8502.

Non-alloyed steel surfaces shall be abrasive blasted to "Near White Metal" in accordance with EN ISO 12944-4. A surface preparation degree of SA 2½ (SSPC-SP 10; NACE No. 2) as specified in EN ISO 8501-1 and a "medium (G)" roughness degree as specified in EN ISO 8503-2 must be achieved. A minimum surface profile of $R_z \geq 70 \mu\text{m}$ is required.

To prevent flash rust, the primer must be applied immediately after the blasting and cleaning of the substrate or the component must be air conditioned to a relative humidity of $\leq 40\%$.

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 tensile strength of 1.5 N/mm². The residual moisture content must not exceed 4%.

ENVIRONMENTAL CONDITIONS

The specified environmental conditions must be observed during surface preparation and brick lining and be tested and recorded according EN 14879-6.

Environmental Conditions	Value
Relative Humidity	$\leq 80\%$
Surface Temperature	$\geq +10^\circ\text{C}$ up to $+30^\circ\text{C}$
Application Temperature	$+20^\circ\text{C} \pm 5^\circ\text{C}$ recommended
Dew Point Distance	min. 3K

APPLICATION

The execution of the brick lining work is only permitted, if the requirements of „Surface Pre-treatment“ and „Environmental Conditions“ are met.

Asplit CN 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. If tiles have to be laid in alkaline mortar with open joints, make sure that the mortar is hardened, acidified and dried before applying **Asplit CN**.

The joints have to be square with a depth of minimum 15 mm and a width of 5 - 8 mm. The edges of the tiles have to be free from mortar and the joints must be cleaned.

WORK TOOLS

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & Mixing vessels
- Flat / wide brush
- Mortar trowel
- Grouting tool
- Miscellaneous (safety glasses, rubber gloves etc.)

MIXING RATIO

Pour **Asplit CN SOLUTION** in a mixing vessel and add **Asplit CN 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.

Asplit CN SOLUTION tends to separate water during storage. If there is a water film on top, it is necessary to skim it first before use. Do not mix the water into the solution.

Asplit 876 PRIMER	Parts by Weight [kg]	Parts by Volume [Liter]
Asplit 876 SOLUTION	100	2.00
Asplit 876 HARDENER	40	0.81

Asplit CN	Parts by Weight [kg]	Parts by Volume [Liter]
Asplit CN SOLUTION	100	2.00
Asplit CN POWDER	180	7.33

CONSUMPTION

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

Material	Sizes [mm]	Coverage [kg/m ²]
Tiles	240 x 115 x 20	ca. 11
Tiles	240 x 115 x 40	ca. 14
Bricks	240 x 115 x 65	ca. 18
Bricks	240 x 115 x 80	ca. 20

POT LIFE (20°C)

Product	Time [min]
Asplit CN	ca. 50

Asplit CN

CURING (20°C)

Load Capacity	Time
Accessible	ca. 24 h
Chemical load	ca. 8 Days

POST TREATMENT

Brick linings with **Asplit CN** should be taken in operation at earliest 8 days after finishing. The optimum resistance to solvents and alkalis will be achieved after several weeks at room temperature. This process can be accelerated by a thermal treatment of the finished floor or brick lining.

CLEANING

Clean all equipment with **SOLVENT T-200** immediately after use. The cleaning is done while the material is still not hardened.

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	Article No.
Asplit 876 HARDENER	8 kg	592 0615
Asplit 876 SOLUTION	20 kg	592 0605
Asplit CN SOLUTION	20 kg	592 0020
Asplit CN SOLUTION	1000 kg	592 0022
Asplit CN POWDER	25 kg	592 0010
SOLVENT T-200	4 kg	590 0610
SOLVENT T-200	8 kg	590 0611

STORAGE

The products must be stored in a cool and dry place, away 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 HARDENER	≤ +25°C	24 Months
Asplit 876 SOLUTION	≤ +25°C	24 Months
Asplit CN SOLUTION	≤ +20°C	9 Months
Asplit CN POWDER	-	24 Months
SOLVENT T-200	5 - 25°C	60 Months

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. In addition, the DIN 7716 must be observed.

Technical Data	Standard	Unit	Value
Resistance to Ground	EN ISO 1081	Ω	≤ 1 x 10 ⁸
Flexural Strength	EN ISO 178	N/mm ²	22
Density (Mixture)	EN ISO 2811 (ASTM D1475)	g/cm ³	1.53
Compressive Strength	EN ISO 604	N/mm ²	50
Hardness Shore D	-	-	ca. 60 - 70
Thermal Conductivity	-	W/(m · K)	1.6
Tensile Strength	EN ISO 527	N/mm ²	8
Max. Operating Temperature Liquids	-	°C	+180

Note: The indicated temperatures are dependent on the present load and may vary

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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