

PRODUCT INFORMATION

Asplit VP 788

PRODUCT DESCRIPTION

Asplit VP 788 is a black, two-component, cold curing synthetic resin mortar, based on a modified furan resin with carbon fillers.

FIELDS OF APPLICATION

Asplit VP 788 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

- The hardened mortar is electric conductive
- High chemical resistance against acids, alkalis and certain solvents
- High temperature resistance
- Lower shrinkage than other furan resins
- Low odour
- Long shelf life even at higher temperatures, therefore also suitable in tropic regions

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 VP 788** 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 VP 788 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 VP 788**. 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 VP 788 SOLUTION** in a mixing vessel and add **Asplit VP 788 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 876 PRIMER	Parts by Weight [kg]	Parts by Volume [Liter]
Asplit 876 SOLUTION	100	2.00
Asplit 876 HARDENER	40	0.81

Asplit VP 788	Parts by Weight [kg]	Parts by Volume [Liter]
Asplit VP 788 SOLUTION	100	2.00
Asplit VP 788 POWDER	205	6,94

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. 12
Tiles	240 x 115 x 40	ca. 15
Bricks	240 x 115 x 65	ca. 19
Bricks	240 x 115 x 80	ca. 21

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POT LIFE (20°C)

Product	Time [min]
Asplit VP 788	ca. 60

CURING (20°C)

Load Capacity	Time
Accessible	ca. 24 h
Chemical load	ca. 2 Days

COMMISSIONING

Brick linings with **Asplit VP 788** should be taken in operation at earliest 1 week after completion.

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 VP 788 SOLUTION	20 kg	592 0080
Asplit VP 788 SOLUTION	1000 kg	592 0082
Asplit VP 788 POWDER	25 kg	592 0070
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 VP 788 SOLUTION	≤ +30°C	24 Months
Asplit VP 788 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	16
Density (Mixture)	EN ISO 2811 (ASTM D1475)	g/cm ³	1.58
Compressive Strength	EN ISO 604	N/mm ²	52
Tensile Strength	EN ISO 527	N/mm ²	5
Max. Operating Temperature Dry	-	°C	+230

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

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