

From Project to Jobsite



Certified Quality System since **FEBRUARY 1993**

ASPER® STRUCTURA

TWO-COMPONENT FIBRE-REINFORCED LIME BASED MORTAR FOR STRUCTURAL STRENGTHENING OF MASONRY OF HISTORIC OR MONUMENTAL BUILDINGS

CE approved EN 998-2

Description Product formulated with lime NHL5 - EN 459-1, reactive microsilica, structural fibres, multi-

functional additives, and interactive fillers.

Advantages The ancient lime-pozzolanic reaction by rational scientific approach becomes an innovative

industrial high-tech technology with exceptional high values of deformation energy: ASPER®

STRUCTURA.

Indicated use Structural reinforcement of masonry walls, especially when of historical and monumental

importance: repair of damages, reconstruction of the joints, structural cooperating covers on

vaults, reinforced linings with glass fibre/zirconium or steel nets.

Method of use Preparation of the substrate

Remove all loose and/or friable parts; remove the jointing mortar if not consistent enough. Remove any powdery residues. Wash and thoroughly moisten the substrate in order to prevent water absorption of the fresh mortar.

<u>Mixing</u>

Pour the component (B) ADHEWAT® (4.5-5 Kg) in the mixer in motion and then the bag (A) ASPER STRUCTURA® (25 kg).

Mix for about 3-4 minutes to obtain a homogeneous mixture.

Application: Moisten the surface and apply manually.

For structural reinforcements it is required to fix extra steel stubs in the substrate, followed by the application of a first layer of **ASPER® STRUCTURA**. Next install the glass/zirconium fibre net (**Tecnofib Glass net 510 or Tecnofib Glass net 340**) or steelnet (**Tecnofib ST elt-4/50**) and apply immediately after, the second layer of mortar as finishing coat.

Remarks

The products of the **ASPER**® system do not contain harmful substances. It is well known, however, that the mineral binders such as hydrated lime have an alkaline effect. **Storage:** 12 months in original packaging, unopened, kept in a dry and protected area in temperatures between +5 °C and +35 °C.

Do not use the contents of open bags if you notice agglomeration of the powder.

Packaging (A): bag of 25 Kg. On pallet of 1200 Kg.

(B): can of 5 Kg or container of 1000 Kg.

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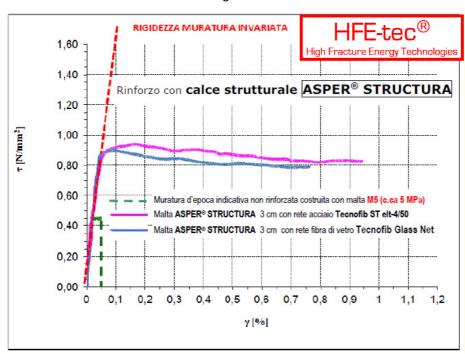


ISO 9001 BUREAU VERITAS Certification VAS MANAGEMENT OSE OSE OSE MANAGEMENT

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Structural Diagonal compression test of masonry reinforced with ASPER® STRUCTURA reinforced characteristics with alkali-resistant glass fibre mesh or stainless steel net.





Technical characteristics (typical values)

		ASPER® STRUCTURA
 Static modulus of elasticity 	N/mm ²	9.000
• Compressive strength (28 d.)	N/mm ²	15
Flexural strength (28 d.)	N/mm ²	5
 Adhesion to stone 	N/mm ²	> 0,5
 Adhesion to brick 	N/mm ²	> 0,5
 Water vapour permeability 	μ	20
Consumption	Kg/m ² /mm thickn.	1,80
 Workability time (20 ℃) 	h	> 2
 Initial setting time (20 °C) 	h	> 4
 Minimum application tempera 	ture ℃	+3℃
 Reaction to fire 		Class A1
Colour		Old white

Safety Read carefully the indications on the packaging or request for the Material Safety Datasheet **Instructions** of this product.

The above data derive from our best actual practical and laboratory knowledge and are the result of applications of the product in different fields of use. Tecnochem Italiana cannot be held responsible for negative or inadequate results that are due to improper use of the product or due to causes unconnected to the quality of the product including the storage. The technical characteristics and performance contained in this datasheet are periodically updated. This datasheets replaces and supersedes the previous versions, and the data will be updated periodically. The revision data are indicated in the specific field. The site www.TECNOCHEM.IT contains the updated datasheets , which are updated in real time.

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