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.

Mixing

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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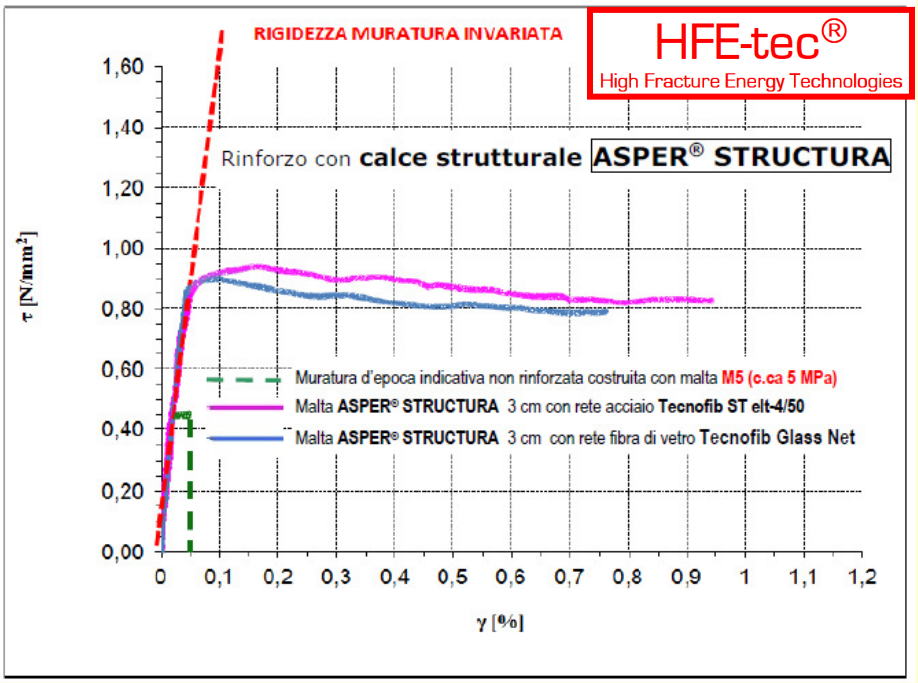
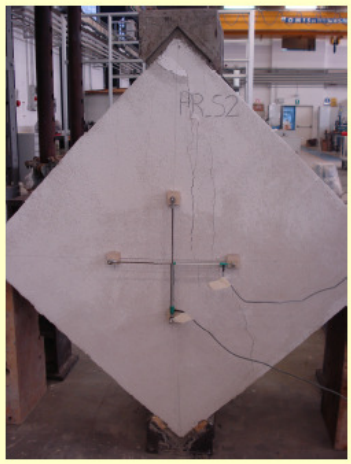
Structural characteristics

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





Technical characteristics (typical values)

		ASPER® STRUCTURA
• Static modulus of elasticity	N/mm²	9.000
• Compressive strength (28 d.)	N/mm²	15
• Flexural strength (28 d.)	N/mm²	5
• Adhesion to stone	N/mm²	> 0,5
• Adhesion to brick	N/mm²	> 0,5
• Water vapour permeability	μ	20
• Consumption	Kg/m²/mm thickn.	1,80
• Workability time (20°C)	h	> 2
• Initial setting time (20°C)	h	> 4
• Minimum application temperature	°C	+3°C
• Reaction to fire		Class A1
• Colour		Old white

Safety Instructions

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

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