



SYN.0185

## SYNTECH AS 31

Thixotropic epoxy filler, for repairs, fixings and beton plaque

### Dosage

1.6 kg /dm<sup>3</sup>

### Packaging

- Can 5 kg [A]
- Canister 1 kg [A]
- Can 5 kg [B]
- Canister 1 kg [B]
- Kit: 1 Can 5 kg [A] + 1 Can 5 kg [B]
- Kit: 1 Canister 1 kg [A] + 1 Canister 1 kg [B]

### Application

- Brick trowel
- Spatula

Family  
Syntech

Product Lines

- Building
- Infratech
- Opus

Type

Epoxy or polyester based adhesives and mortars

Functional Categories

- Structural strengthening of masonry in historic buildings
- Reconstruction, repair and maintenance of wooden structures
- Waterproofing with hot-sprayed elastomeric coatings (100% pure polyurea)
- Repair and restoration of concrete structures with thixotropic mortars
- Fastening and anchoring metallic connectors, inserts and frames
- Horizontal cement waterproofing of terraces and balconies
- Construction of underground works in high performance waterproof concrete
- Structural precision anchoring

Components

Two-components

Appearance

Liquid + Liquid

## General description

Two-component structural adhesive epoxy filler, with soft consistency, thixotropic, easy to spread (malleable paste), for the anchorage of steel connectors, the hermetic closure of through holes in concrete, bonding steel plates on concrete supports, as accessory product for laying road joints, for the reconstruction of wooden heads, crack repair, reconstruction of missing geometries, fixing injectors, reconstruction of joints in concrete floorings etc.

## Fields of application

Structural reinforcements of structural elements (beams, pillars, etc.) by bonding steel sheets to the concrete. Reconstruction of joints in concrete floorings. Rigid structural bonding (beton plaque) of prefabricated elements and of articles in different building materials: concrete, steel, glass, wood, marble, tiles, stones etc. Anchoring, bonding and attachment of connectors, ties etc. Attachment of elastic straps for waterproofing joints, ELASTOTEX. Reconstruction of wooden heads, crack repair, reconstruction of missing geometries on various supports.

## Available colours

- Brown

## Basic features



Adhesion to the substrate:  
>3.5 N/mm<sup>2</sup>



Density:  
1.56 kg/dm<sup>3</sup>



Pot-life:  
40-60 min



Shelf-life:  
12 months



Temperature of use:  
+8 / +35 °C



Use wearing protective gloves

## Technical specifications

Breaking load longitudinal (ASTM D 638/2 a 20°C): 35 ±5% N/mm<sup>2</sup>

Complete hardening (a 20°C): 7 day

Compressive strength (ASTM D 695): 65 ±5% N/mm<sup>2</sup>

Dry residue (10' a 150°C): 96 ±1 %

Flexural strength (DIN 53452 a 20°C): 31 ±5% N/mm<sup>2</sup>

Gel time (UN 8701-8 a 20°C): 60 ±3.5% min

Hard to touch (a 20°C): 2 h

Longitudinal elongation at break (ASTM D 638/2 a 20°C): 3 %

Ratio of catalysis: 1:1

Static elastic modulus (ASTM D 695): 2.3 N/mm<sup>2</sup>

Working temperature: -20 / +60 °C



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## Tools cleansing

- Thinner for resins

## Applicable on

- Concrete
- Prefabricated concrete
- Wood
- Floor screed
- Rock walls

## Instructions for use

Add component B to component A, taking care to remove all the material from the packaging and mixing thoroughly with a mixer at a low number of revolutions (or a suitable manual tool), until a homogeneous mixture is obtained, indicated by the uniform colour and the absence of lumps. Apply to the surfaces with the help of spatulas, trowels, etc. Complete the tasks during the useful life of the product.

## Substrate preparation

The application surfaces must be suitably prepared and adequately resistant: free from dust, grease, soiling, crumbling and non-adhering parts, devoid of wet surface areas. For floorings, moreover, a shot peening or preliminary milling of the surfaces of adhesion is recommended. The metal elements are to be blasted to "almost white metal".

## Storage and preservation

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Opened containers must be used immediately.



## Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

Do not apply in rainy days; do not apply on moist or wet supports; do not apply on pulverised supports; use the product immediately after mixing.



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