



SYN.0191

## SYNTECH IC 55

Fluid epoxy resin for reinforcing building structures

### Customs Code

3907 3000

### Packaging

- Can 1 kg [A]
- Can 5 kg [A]
- Can 0.5 kg [B]
- Can 2.5 kg [B]
- Kit: 1 Can 1 kg [A] + 1 Can 0.5 kg [B]
- Kit: 1 Can 5 kg [A] + 1 Can 2.5 kg [B]

### Application

- Pour out
- Injection
- Brush
- Paint roller



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Updated: 29/07/2022

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Family  
Syntech

Product Lines

- Building
- Infratech
- Opus
- Floor

Components  
Two-components

Type  
Epoxy-based liquid mortars, resins and stucco

Functional Categories

- Structural strengthening of masonry in historic buildings
- Reconstruction, repair and maintenance of wooden structures
- Fastening and anchoring metallic connectors, inserts and frames
- Structural maintenance of dams, reservoirs, ducts and water ducts
- Structural maintenance of bridges and viaducts
- Structural maintenance of tunnels
- Structural precision anchoring

Appearance  
Liquid + Liquid

## Certifications and legislations



EN 1504-6

Products and systems for the protection and repair of concrete structures - Anchoring of reinforcing steel bar

## General description

A two-component pure epoxy adhesive that is fluid with a low viscosity, free from fillers and solvents, being specific for high performance structural consolidation injections in crumbling masonry, degraded concrete, aging screeds and industrial flooring, cracked plasters and mortars and so on. It is ideal for securing bars, clamps and tie-rods. It is also perfect for the deep consolidation of wooden materials and other types of porous materials, with impregnation by brush or roller.

## Dosage

Approximately 1.1 kg of SYNTECH IC55 for each cubic decimetre of volume to be filled.

## Fields of application

Reinforcing and filling injections of cracks in concrete, stone, brick, mixed works etc. Anchor, bonding and attachment of connectors, plates etc. Structural reinforcement and small volume rebuilding (only horizontal) in general. Reinforcement of porous construction materials such as wood, natural stone, bricks etc.

## Basic features



Adhesion to the substrate:  
 $\geq 3 \text{ N/mm}^2$



Density:  
 $1.08 \text{ kg/dm}^3$



Pot-life:  
25 min



Shelf-life:  
12 months



Solvent-free



Temperature of use:  
 $+8 / +35 \text{ }^\circ\text{C}$



Use wearing protective gloves



Available colours  
Transparent tending pale yellow

## Technical specifications

Complete hardening (a 20°C): 7 day

Compressive strength: 100 N/mm<sup>2</sup>

Hard to touch (a 20°C): 6-8 h

Longitudinal elongation at break: 12 %

Ratio of catalysis (in peso): A : B = 100 : 50 %

## Tools cleansing

- Thinner for resins

## Applicable on

- Plasters
- Concrete
- Cement-based or lime-based mortars
- Prefabricated concrete
- Wood
- Bricks
- Tuff
- Mixed walls (bricks and stones)
- Stone walls
- Floor screed
- Rock walls

## Substrate preparation

The surfaces of application will be seasoned and dry (residual humidity measured at a depth of 4 cm, should not be greater than 4 % ), free from dust, grease, soiling, crumbling and non-adhering parts.

## Instructions for use

Make sure that the environment is well ventilated and wear the personal protective equipment mentioned in the safety data sheet. Add component B to component A taking care to remove all the material from the packaging, mix thoroughly with a mixer at a low number of revolutions, until a perfectly homogeneous mixture is obtained; add the required load amount (component C) continue to mix until a perfectly homogeneous lump-free mixture is obtained. Lay the material using the techniques specific to the type of intervention: injection, pouring, brushing, etc..

Do not apply on wet or pulverised media. Non-conformities of the support can have unpleasant drawbacks: detachments, large bubbles, etc. Apply only in the intended thermal intervention (+8/+35 °C).

Use the product immediately after mixing and mix only the amount of product intended for immediate use.

SYNTECH IC 55 is a product based on fluid epoxy resins. It may cause variations in the colour of the product on which it is applied, both wood and stone material. For this reason it is recommended to carry out preliminary tests.

## Storage and preservation

Protect from freezing. 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. Store the product at a temperature between +5°C and +35°C.



## Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

*SYNTECH IC 55 is produced/distributed by*



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