

## Syntech IC 55

### Fluid epoxy resin for reinforcing building structures



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.

**CUSTOMS CODE:** 3907 3000

**COMPONENTS:** Two-components

**APPEARANCE:** Liquid + Liquid

**AVAILABLE COLORS:** Straw yellow

**PACKAGING AND DIMENSIONS:** 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]

### OBTAINED CERTIFICATIONS AND REGULATIONS



### 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.

### ALLOWED SUPPORTS

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

### PREPARATION OF SUPPORTS

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.



## MODE OF 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.




## APPLICATION METHODS



Pour out - Injection - Brush - Paint roller

## TOOL CLEANING

Thinner for resins

## KEY FEATURES

-  Density: 1.1 kg/dm<sup>3</sup>
-  Shelf-life: 12 months
-  Use wearing protective gloves

-  Pot-life: 25 min
-  Temperature of use: +5 / +35 °C

## TECHNICAL SPECIFICATIONS

*UNI EN 12614*  
Glass transition temperature **50 °C**

*ISO 178*  
Static elastic modulus **3000 N/mm<sup>2</sup>**

*EN 1771*  
Injectability in dry sand columns **190 s**

*UNI EN 1881*  
Resistance to the extraction of the steel bars with improved adhesion  
**0.1 mm**

*EN 1771*  
Injectability in wet sand column **190 s**

**< 3 %**

*EN 196*  
Flexural strength **45 N/mm<sup>2</sup>**

*a 25°C*  
Viscosity **450 / 550 mPas**

*a 20°C*  
Complete hardening at 20°C **7 day**

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

*a 20°C*  
Touch hardening at 20°C **6-8 h**

*UNI EN 12190*  
Compressive strength **> 70 N/mm<sup>2</sup>**

Dry residue **100 %**

Working temperature **-20/+60 °C**

## CONSUMPTION

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



## STORAGE AND CONSERVATION

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.

## PHOTO GALLERY



## ADDITIONAL CONTENT



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