



Family  
**Syntech**

Product Lines

- Building
- Infratech
- Floor

Type  
**Epoxy-based liquid mortars, resins and stucco**

Functional Categories

- Construction of bonding bridges between the existing support and the new slope

Components  
**Two-components**

Appearance  
**Liquid + Liquid**

SYN.0196

## SYNTECH RGS

Epoxy adhesive for structural construction joints, brushable

### Customs Code

3907 3000

### Packaging

- Can 5 kg [A]
- Can 10 kg [A]
- Can 1.5 kg [B]
- Can 3 kg [B]
- Kit: 1 Can 5 kg [A] + 1 Can 1.5 kg [B]
- Kit: 1 Can 10 kg [A] + 1 Can 3 kg [B]

### Application

- Pour out
- Brush
- Paint roller
- Scrubbing brush

## Certifications and legislations



### EN 1504-4

Products and systems for the protection and repair of concrete structures - Structural bonding

## General description

A fluid, medium-viscous epoxy adhesive for the structural casting of joints (new conglomerates on existing structures). After careful mixing, the two-component compound must be applied on the existing concrete by brush or roller, a few minutes before applying the new conglomerate ("wet-on-wet").

## Dosage

Apply from 0.30 to 0.70 kg of SYNTECH RGS per square metre of surface to be treated.

## Fields of application

Construction joints between new and existing concrete, flooring and structures. Sealing and filling of cracks in the concrete (of a magnitude greater than 1 mm).

## Basic features



Density:  
1.05 ( $\pm 0.05$ ) kg/dm<sup>3</sup>



Pot-life:  
30 min



Shelf-life:  
12 months



Solvent-free



Temperature of use:  
+8 / +35 °C



Use wearing protective gloves



Available colours  
Transparent

## Technical specifications

Adherence to steel (EN 12188):  $\geq 12$  N/mm<sup>2</sup>

Complete hardening (a 20°C): 7 day

Compression shear strength at 50° (EN 12188):  $\geq 50$  N/mm<sup>2</sup>

Compression shear strength at 60° (EN 12188):  $\geq 60$  N/mm<sup>2</sup>

Compression shear strength at 70° (EN 12188):  $\geq 70$  N/mm<sup>2</sup>

Compressive strength:  $\geq 30$  N/mm<sup>2</sup>

Dry residue (10' a 150°C): 68 %

Free-phase withdrawal/expansion:  $\leq 0.1$  %

Glass transition temperature:  $\geq 40$  °C

Hard to touch (a 20°C): 4-6 h

Reaction to fire: Class E \_

Shear strength (EN 12615):  $\geq 6$  N/mm<sup>2</sup>

Static elastic modulus:  $\geq 2000$  N/mm<sup>2</sup>



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## Tools cleansing

- Thinner for resins

## Applicable on

- Concrete
- Fiber-cement
- Tiles
- Floor screed
- Asphalt
- Rock walls
- Steel

## Substrate preparation

The application surfaces should be suitably prepared and adequately resistant: free from dust, grease, fouling, crumbling and non-adhering parts, free of detected surface humidity, for floorings, moreover, it may be advisable to carry out preliminary shot peening or milling of adhesive surfaces.

## Instructions for use

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 homogeneous lump-free mixture is obtained. Apply by brush or roller on the surfaces prepared.

Spread, or "cast" on site, the subsequent conglomerate, in the range of application defined by the conditions of adherence of SYNTECH RGS (before it hardens).

## 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. Protect from humidity.



## 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.

Do not apply in the presence of stagnant water at the surface; do not make the new cast if the product lacks the necessary "stickiness".

If, after its application, SYNTECH RGS should unfortunately harden before having placed the new conglomerate, it is recommended that you do not proceed, since the separation between the two bodies would be very likely! In these cases, it is recommended to apply a new layer of SYNTECH RGS, above the already hardened one, and proceed normally (as described above).

SYNTECH RGS is produced/distributed by



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