



UNI EN ISO 9001:2015
Quality System Certified Company



TECHNICAL DATA SHEET PRODUCT

EPOXY 400 REGULAR CLS SPECIAL

**THIXOTROPIC EPOXY ADHESIVE
IN CARTRIDGE**
special for concrete, marble, granite, stones

COMPOSITION

COMPONENT A: Thixotropized epoxy resin (molecular weight >700) with fillers and pigments,
COMPONENT B: Mixture of cycloaliphatic amine, polyamide and tertiary thixotropized amine fed catalyzing agents with fillers and pigments

USE

Permanent bonding of concrete, marble, natural stones between them or with other supports (metals, terracotta, etc.)

MIXING RATIO

Epoxy adhesives require exact mixing ratio, in weight, between component A (resin) and component B (catalyst). In the particular case the ratio is:

PART A : PART B = 100 : 100
(i.e.: 100 gr. of part A mixed with 100 gr. of part B)

SURFACE PREPARATION

Surface to be treated/glued to be porous, clean, dry and free from dust, grease or any other extraneous substances.

MIXING

Predetermined dosage and automatic mixing by the static mixer during the extrusion from the cartridge

PACKAGING

Side-by-side plastic cartridge of 400 ml. complete with static mixer

APPLICATION

By the proper dispenser / caulking gun
Do not apply at temperature lower than +10°C (50°F). A temperature between +10°C/50°F and +30°C/86°F is suggested.

THICKNESS

Recommended 0,3 to 1 mm

CONSUMPTION

250 to 700 gr/m²

POLYMERISATION

The rate of reaction increases with the temperature, which should never be lower than +10°C (50°F).

HARDENING at 25°C (77°F)

70 minutes in mass, 200 minutes in thin coat (applied).

TECHNICAL DATA

see page 2

NOTE

Based on data reported, workability time is considered to be 30 to 35 minutes
Do not store at temperature lower than +10°C (50°F). and higher than 35°C(95°F). Protect from frost the stored cans

WARNING! *The prolonged exposure to UV rays causes the alteration of the initial colour of the product. The product is suitable for gluing/bonding and not for visible grouting, especially outdoors*



SHRINKAGE

0,3% abt.

TECHNICAL DATA

| PROPERTIES | value | unit | (kg/cm ²) |
|---|----------|---------------------------------|-----------------------|
| INORGANIC FILLERS | 48 | % | |
| DENSITY | 1,5 | g/cm ³ | |
| FLEXURAL STRENGTH | 60 | Mpa | (600) |
| TENSILE STRENGTH | 45 | Mpa | (450) |
| MODULUS OF ELASTICITY | >10000 | Mpa | |
| COMPRESSION STRENGTH | 90 | Mpa | |
| SHOCK RESISTANCE | 3,8 | KJ/m ² | |
| RESILIENCE | 1,1 | KJ/m ² | |
| HEAT DIMENSIONAL STABILITY (Martens method) | 70 (158) | °C (°F) | |
| LONGITUDINAL EXPANSION RATIO | 70 | 0 ⁻⁶ K ⁻¹ | |
| LOSS IN WEIGHT (7 days at 100°C [212°F]) | 0,3 | % | |
| WATER ABSORPTION | 0,04 | % | |

The above data refer to the resin

NOTES

Epoxy adhesives possess excellent adhesive characteristics even on surfaces that are lightly damp. The low shrinking rate (0,1 to 0,5%) creates very little tension both during and after the hardening process, enabling great stability of the adhesion and the materials. Once cured, the adhesives are absolutely resistant to freezing and water and are therefore recommended for outdoor application; however, prolonged exposure to direct sunlight can cause resin to yellow. Thanks to the very high adhesive flexibility, it is possible to affix a variety of material as concrete, steel, wood, many plastics, and natural and artificial stone in any combination even in alternating rows.

LIMITATION OF LIABILITY The data provided derive from published information or from our own laboratory tests. The information provided here must be considered as a guideline and not as any form of performance guarantee. Liability for defective products, when verified, is limited to refund of the purchase price since application of the product is beyond the control of the manufacturer or supplier.

A PRELIMINARY TEST IS ALWAYS RECOMMENDED BEFORE THE APPLICATION