

TECHNICAL DATA SHEET

SUPERUNICK® Immediate Power

Product description

CEYS SUPERUNICK® Immediate Power is the universal instant cyanoacrylate adhesive for the highest performance and perfect finish in 3 seconds. It is strong, fast and safe. Its new generation liquid formula is non-irritating and odour-free.

The properties of CEYS SUPERUNICK® Immediate Power have been carefully selected through extensive research and experimentation to meet the needs of the most demanding users. Our technical expertise and market knowledge have enabled us to develop an instant adhesive with excellent adhesive properties on a wide range of materials and surfaces.

Compared to conventional universal adhesives, this product offers exceptionally fast bonding times and strength, even in applications where flexibility is required. It is very versatile and perfectly joins all kinds of materials.

Special characteristics

- Immediate. Bonds in 3 seconds.
- Withstands shock and vibration. (ASTM-D-950)
- Non-irritating.
- Odourless.
- Bonds all materials, including very porous surfaces, except polyethylene (PE), polypropylene (PP) and Teflon® (PTFE).
- Resistant to water, outdoor environments and dishwashers. (Internal method)
- Does not go white.
- Does not instantly stick fingers.

Typical properties of the uncured material

- Density at 23 °C (ISO 1183): 1.10 g/cm³
- Viscosity (Brookfield DV II + Pro, 25 °C, 100 rpm): 20 – 50 mPa·s

Typical curing characteristics

In normal conditions, atmospheric moisture starts the curing process on the adhesive layer formed when the two surfaces to be joined are pressed together. Although strength develops quickly, full strength is achieved after 24 hours.

Clamping time

Clamping time is defined as the time required to develop a shear strength of 0.1 N/mm² (1 kg/cm²) at 23 °C and 50 % relative humidity.

The clamping time for this product is between 3 and 30 seconds. This value may vary depending on the type of material, its nature and the application.

Behaviour of the cured material

Shear strength (ISO 4587) for samples cured for 24 hours at 23 °C and 50 % relative humidity varies between 9 - 13 N/mm². This value may vary depending on the type of material, its nature and the application.

Service temperature:

- 20 to 80 °C

Instructions for use

- Before applying the adhesive, ensure that the areas to be bonded are clean, dry and free of all loose material, dust, dirt, rust, oil or other contaminants.
- For tube packs, screw the cap and nozzle onto the tube. Unscrew the cap to open the product. For integrated brush bottles or bottles with nozzle, unscrew the cap.
- Apply a small quantity of adhesive to one of the two surfaces. An uneven surface may require more adhesive to fill all the gaps.
- Place the two parts in contact and press together (see table for precise clamping times) until the parts are secured. After releasing the pressure, wait a few minutes for good handling resistance. Maximum strength is achieved after approximately 24 hours.
- Immediately after use, wipe the tip of the nozzle clean with tissue and close the cap. Store the tube or bottle in an upright position in a cool, dry place.
- Different products will be needed to clean surfaces, depending on the nature of the surface to be cleaned. In some cases use a clean, lint-free cotton cloth dampened with solvent. Dry immediately with a second cloth before the solvent evaporates from the surface. In other cases, seek the advice of the manufacturer of the substrate for the best cleaning method.

Tips for a PERFECT FINISH:

- Do not overapply. Remove any excess product as far as possible with absorbent paper or a spatula.
- For an invisible finish, apply a continuous thin layer and remove any trapped air. Do not apply in dabs or spots.
- For applications on glass or crystal, test a small area first.

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Dissolving and cleaning

Use solvents specifically made for instant adhesives, such as CEYS Instant Adhesive Cleaner 5 g (Ref. 504115) or acetone.

Format

CEYS SUPERUNICK® Immediate Power is supplied in 1-g (Ref. 504020) and 3-g tubes (Ref. 504001), in 5-g bottles with an integrated brush (Ref. 504011) and in 6-g (Ref. 504003), 20-g (Ref. 504004) and 50-g (Ref. 504005) bottles with nozzle.

Storage

Store the product in a cool, dry place in its original closed container at temperatures of between 5 °C and 25 °C.

In its original closed packaging the storage life of the product varies from 12 to 18 months depending on the type of packaging and how it is handled/stored by the customer.

Storage beyond the recommended date does not necessarily mean that the product is no longer usable. In this event,

however, the properties required for the intended use must be checked for reasons of quality control.

The date of manufacture can be determined from the batch code on the packaging. For assistance, please contact the Technical Department or Customer Service.

Safety precautions

Keep out of the reach of children.

More detailed instructions are given in the relevant product safety data sheet.

This product is not recommended for use with pure oxygen and/or oxygen-rich systems and must not be used as a sealant for chlorine or other strong oxidants. For information on the safe handling of this product, consult the Material Safety Data Sheet (MSDS).

The user shall take ultimate responsibility for determining the final suitability of the product in all types of application.

The information given in this Technical Data Sheet should never be considered as a specification of the product's properties.

We guarantee the uniformity of the properties of our products in all supplies. The recommendations and information published in this technical data sheet are based on our current knowledge and rigorous laboratory tests. Due to the many variations in each project's materials and conditions, we ask our customers to conduct their own tests of utility under the expected working conditions and following our general instructions. This will avoid any subsequent damage, for the consequences of which the company is not responsible.