

## CEMENT-BASED MORTAR PLASTICISER AND BONDING ENHANCER

## DESCRIPTION

PENECRYL™ ELASTIC is a milky white, liquid plasticizer and bonding enhancer, for cement-based mortars. PENECRYL™ ELASTIC is a high solids aqueous dispersion of acrylic ester-styrene copolymer. PENECRYL™ ELASTIC is free from APEO.

## RECOMMENDED FOR

PENECRYL™ ELASTIC is recommended as an enhancing agent of waterproofing and repairing cement-based mortars, ensuring hyper-elastic properties and improved waterproofing and anchoring results.

## ADVANTAGES

- ▶ Ensures high flexibility and elasticity of the cement-based mortars and plasters, regarding the mixing ratio and the use as an additive of brush applied waterproofing or repairing cement-based products.
- ▶ Ensures good crack repairing, high waterproofing results and excellent bonding properties of the mortars on concrete, stone, masonry and other cement-based substrates.
- ▶ As a plasticizer of SEAL COAT™ waterproofing product. (see *Product Data Sheet SEAL COAT™*). It can be used undiluted or diluted with clean water in mixing ratios ranging from 1:3 to 3:1.

## TECHNICAL CHARACTERISTICS

| Characteristics                                | Test Result   | Test Method |
|--|---|-------------|
| <i>Composition</i>                             | Aqueous dispersion of acrylic ester-styrene copolymer |             |
| <i>Colour</i>                                  | Milky white   |             |
| <i>Density</i>                                 | 56 - 69 lb/ft <sup>3</sup> (0.9 – 1.1 Kg/Lt)          |             |
| <i>Solid content</i>                           | 57%   | ISO 3251    |
| <i>pH value</i>                                | 7.0   | ISO 976     |
| <i>Viscosity</i>                               | 1500 mPas   | ISO 2555    |
| <i>Glass transition temperature (midpoint)</i> | 28.4 °F (-2 °C)                                       |             |
| <i>Mean Particle Size</i>                      | 0.25 µm   |             |

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values.

## DIRECTIONS FOR USE

**Application:** For very high elasticity and for SEAL COAT™ ELASTIC system, mix 50 lb (22.68 kg) SEAL COAT™ with 26.5 lb (12 kg) PENECRYL™ ELASTIC, without adding water, using a mix drill and a mixing wand. Indicatively, see the table below for all SEAL COAT™ SYSTEMS (see *Mixing ratios*).

**Mixing ratios:**

| Mixing ratio | Product quantities in lb (kg)                                    |
|--------------|--|
| 1:2          | 4.4 lb (2 kg) PENECRYL™ ELASTIC with 8.8 lb (4 kg) Water         |
| 1:1          | 6.6 lb (3 kg) PENECRYL™ ELASTIC with 6.6 lb (3 kg) Water         |
| 2:1          | 8.8 lb (4 kg) PENECRYL™ ELASTIC with 4.4 - 6.6 lb (2-3 kg) Water |

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**NOTE:** Contact PENETRON HELLAS S.A. for further information, regarding your project.

**PACKAGING**

PENECRYL™ ELASTIC is available in 8.8 lb (4 kg) and 26.5 lb (12 kg) containers.

**STORAGE / SHELF LIFE**

PENECRYL™ ELASTIC has shelf life of at least 12 months at 41 °F – 95 °F (5 °C – 35 °C), when stored in a dry enclosed area, away from direct solar radiation. Must not come in contact with metal unprotected from corrosion or non-ferrous metals, during storage.

**SAFE HANDLING INFORMATION**

Prolonged contact may be irritating to skin and eyes. If contact is made, flush areas with lots of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Safety Data Sheet. PENETRON S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

**WARRANTY – DISCLAIMER**

PENETRON S.A. warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON S.A. shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON S.A. makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON S.A. accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.