

## Technical Datasheet



### ENGUARD™ BP 6222 Putty

ENGUARD BP 6222 putty is based on epoxy modified vinyl ester resin with excellent mechanical properties.

ENGUARD BP 6222 is a pre-accelerated putty that contains cut fibres as reinforcement. It cures with standard methyl ethyl ketone peroxide (MEKP). If a longer geltime is needed other peroxides might be used.

ENGUARD BP 6222 contains a colour indicator that helps identify proper peroxide mixing.

#### Properties

The liquid and mechanical properties listed below are typical values based on material tested in our laboratories; they may vary from sample to sample. They should not be construed as a guaranteed analysis of any specific lot or as a specification item.

#### Liquid properties

| Property at 23 °C                                      | Value     | Unit | Method    |
|--|-----------|------|-----------|
| Viscosity, Brookfield, RV7/ 2 rpm                      | 1 400 000 | mPas | ISO 2555  |
| Geltime, 2% BUTANOX <sup>(1)</sup> M-50 <sup>(2)</sup> | 15        | min  | DIN 16945 |

(1) Registered trademark of Akzo-Nobel.

(2) BUTANOX M50 or similar MEKP. Use of other MEKP catalysts may result in different geltimes.

#### Typical properties of cured putty

| Property                                      | Value | Unit | Method     |
|---|-------|------|------------|
| Heat Deflection Temperature <sup>(3)</sup>    | 180   | °C   | ISO 75-A   |
| Shrinkage <sup>(4)</sup> (linear; bulk putty) | 0,8   | %    | ASTM D2566 |

(3) Cured with MEKP 2%, 24 hours at 23°C + 1 week at 220°C

(4) Cured with MEKP 2%, 24 hours at 23°C

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# INEOS Composites

### ENGUARD™ BP 6222 Putty

**Application and use**      ENGUARD BP 6222 can be used as a putty for the back filling of joints and gaps in general during the manufacture of vessels.

Please contact our corrosion technical service for questions related to chemical resistance. ENGUARD BP 6222 is applied manually. It has excellent sag resistance on vertical surfaces.

**Certificates and approvals**      The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001.

**Handling and storage**      Surfaces to be applied must be fresh or cleaned eg. with acetone or by grinding. A high quality methyl ethyl ketone peroxide (MEKP) should be used, the level of MEKP should be ideally between 1.5 to 3.0 phr (per hundred grams) of putty depending on the temperature in the workshop. The putty with catalyst must be well mixed before use.

Store at temperatures below 25°C (77°F). Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep containers sealed to prevent moisture pick-up and monomer loss. Mild mixing is recommended after prolonged storage. Rotate stock.

The material should be used within 3 months from the date of manufacture. Storage outside of recommended conditions can influence liquid putty properties like viscosity and gel time, it is recommended to test these properties before starting an application.

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#### Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which INEOS Composites assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of INEOS Composites, INEOS Composites makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.