



EPOXY SOLVENTLESS CERAMIC

PRODUCT DATA SHEET

A two pack polyamine cured epoxy filled with ceramic beads.

EPOXY SOLVENTLESS CERAMIC is a two-pack solvent free cold curing epoxy paint which gives a hard wearing coating when fully cured. It is filled with ceramic beads for maximum resistance to crude oil, kerosene, molasses, and to abrasion.

THIS IS A TWO PACK SYSTEM. MIX THE TWO COMPONENTS THOROUGHLY BEFORE USE. DO NOT USE THE BLEND AFTER THE POT LIFE LIMIT.

USAGE

- As a heavy duty coating where colour is not important.
- As a primer, intermediate and/or finishing coat according to specifications.
- As a tank lining for hazardous materials.
- In confined spaces.
- On concrete and steel.
- In mild to highly corrosive environment.

EPOXY SOLVENTLESS CERAMIC will chalk when exposed to direct sunlight. This chalking effect will matt down the film but will not affect the integrity of the coating. **EPOXY SOLVENTLESS CERAMIC** should not be applied directly on galvanised steel or on zinc metal treated surfaces.

Note: -

Condensation or dew formation on metallic surfaces will result in poor adhesion and subsequent flaking of the paint. Avoid painting during early morning, late evening or during humid and wet periods.

For specialised application such as internal tank linings, permanent immersion and other specific conditions, please contact your supplier for advice on product selection.

PHYSICAL DATA

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| • Finish: | Gloss |
| • Colour: | Grey |
| • Consistency: | Viscous Liquid, mixed |
| • Specific Gravity: | 1.7 (Approx.), mixed |
| • Volume Solids: | 100%, mixed |
| • Flash Point: | > 23 °C, closed cup |
| • Hardener: | EPOXY SOLVENTLESS CERAMIC HARDENER. |
| • Mixing Ratio: | 4 parts BASE / 1 part HARDENER by volume |
| • Pot Life: | 45 minutes at 25°C (1 litre mix) |
| • Shelf Life: | 12 months kept in separate containers. |
| • Packing: | 5 L |

Paints should be stirred before use and occasionally whilst in use.
Contact your supplier for further information

APPLICATION

- **Surface preparation:** See method SP 001 for masonry surfaces, SP 002 for wood, SP 003 / SP 003 A for mild steel and SP 004 for galvanised steel.
- **Application method:** It is recommended to pour the mixed base and hardener into a flat tray to extend pot – life of the mix. Apply one to two coats by brush or roller. Apply to obtain a continuous film; some pinholes may appear due to the nature of the epoxy resin. Due to the high consistency of the paint, a wavy paint film may be obtained on application by brush. Check or calculate the dry film thickness in order to confirm the number of coats required.
- **Dilution:** Not recommended, if absolutely necessary use **EPOXY THINNER**. Do not exceed 5%.
- **Spreading rate / Film thickness:** One litre of undiluted **EPOXY SOLVENTLESS CERAMIC** can be applied at a spreading rate between 6 and 8 m² of surface in one coat; at this spreading rate the dry film thickness will vary between 150 and 125 microns on a completely smooth, non absorbent surface. Thicker coats can be applied, the spreading rate will vary accordingly.
- **Drying time:** Dry to touch in approximately 4 hours at 25°C.
- **Recoating intervals:**

SURFACE TEMPERATURE	20 °C	25 °C	30 °C	40 °C
Dry film thickness, microns	150	150	150	150
Recoating interval, minimum	8 hours	4 hours	3 hours	2½ hours

Best intercoat adhesion is obtained when the next coat is applied on a slightly tacky previous coat. Full cure will be achieved after approximately 7 days. After this stage, it is advisable to roughen the surface to promote intercoat adhesion. A clean surface is mandatory to ensure good intercoat adhesion.

- **Cleaning solvent: EPOXY THINNER.**
- **Preceding coat: -**
As specified, alternatively:
 - ◇ On mild steel use **EPOXY ZINC CHROMATE PRIMER** or **HT 332 METAL PRIMER GREY**.
 - ◇ On galvanised steel use **HIGH TECH 332 METAL PRIMER GREY**
 - ◇ On wood use diluted **EPOXY SEALER CLEAR**.
 - ◇ On concrete or plaster use diluted **EPOXY SEALER CLEAR**.
- **Subsequent coat: ACRYLINE FINISH** to prevent chalking and where colour retention is important. Alternatively a subsequent coat is not recommended.

SAFETY

- Keep away from ignition source. Do not smoke whilst using.
- Wear adequate protective equipment during application; remove splashes from skin with soap and water. In case of contact with eyes, rinse with ample water and seek medical advice if necessary.
- Ensure good ventilation during application and drying.
- Keep containers tightly closed and away from children.
- A complete Material Safety Data Sheet is available on request.

MAINTENANCE

Surfaces prepared and painted according to specification will provide lasting protection and will facilitate maintenance. Carry out repairs as and when required and wash the surface occasionally; use mild detergent and light scrubbing to remove stains.

These recommendations are meant as a guide, no guarantee is implied since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

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