

# TECHNICAL DATA SHEET

## MARBOCOTE TRE45 ECO



**Product Description:** Marbocote TRE45 ECO is an aerospace specified mould release agent that produces a durable film capable of giving many releases before re-application is necessary and will not contaminate the released surface. Marbocote TRE45 ECO is an advanced polymeric resin in a non-chlorinated organic solvent blend.

**Recommended Uses:** Marbocote TRE45 ECO can be applied on all types of non porous molds such as steel, aluminum and composite and will release epoxy, polyester, vinyl ester, phenolic and other thermosetting resins.

Product Benefits:
Quick and easy application
Non-contaminating
Non-chlorinated solvents
Low odour
Minimal mould build-up
Versatile, can be used on all mould surfaces
Durable, provides multiple releases per application

Product Characteristics:	
Appearance	Clear colourless liquid
Composition	Aliphatic hydrocarbon
Flash Point	26°C
Maximum use temperature	450°C
Coverage	80 - 100 m <sup>2</sup> / L per coat
Application Type	Wipe and leave
Shelf Life	12 months

**Important:** The polymeric resin used in Marbocote TRE45 ECO reacts with moisture. Please ensure can is resealed after use.

Please read Safety Data Sheet before use. Do not mix with other products or solvents. Application should be conducted in a well-ventilated area. Solvent resistant gloves and eye protection must be worn during this process.

For new, porous or damaged moulds, **Marbocote Mould Sealer** should be used prior to applying Marbocote TRE45 ECO. See Marbocote Mould Sealer technical data sheet for application details.

**Mould Cleaning:** This needs to be performed prior to product application

If a wax or silicone based release agent has been used previously, remove all traces of previous product using a solvent based cleaner such as Marbocote Mould Cleaner. Marbocote TRE45 ECO can be applied over existing semi-permanent release agents without a further cleaning step. The mould must be clean and dry before use.

**Application Type:** Marbocote TRE45 ECO is applied by a wipe and leave technique.

The choice of cloth is important; as the Marbocote TRE45 ECO resin reacts with water, the cloth must be dry. A smooth, soft cloth with a high synthetic content, such as Kimberley-Clark Wypall X60 is ideal.

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### Wipe Application Technique:

- 1) Apply Marbocote TRE45 ECO to a clean, dry cotton cloth.
- 2) Gently wipe over mould surface covering an area of approximately 0.5m<sup>2</sup>. Vigorous rubbing or polishing is not required.
- 3) Repeat steps 1 and 2 on the adjacent area. Ensure a good overlap with the previous area to provide complete coverage.
- 4) Repeat until mould is completely coated.
- 5) When dry, allow a further 15 minutes between coats for the film to cure.
- 6) Repeat Steps 1-5 above for a further 3 coats (4 in total).
- 7) When dry, the final film needs to be cured before moulding. See table below.

Temp (°C)	Cure Time
Room temp (20°C)	30 minutes
60°C	15 minutes

**Note:** Use the tape-test before and after application. This will initially ensure the mould is clean and latterly, ensure correct coverage and cure times have been observed and that the coating is ready for production. If the tape release is hesitant after application, simply apply another coat in the same manner as described above.

**Reapplication:** When release becomes hesitant, reapply one coat of Marbocote TRE45 ECO in the same manner as described above.

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**Note:** The user will determine the suitability for use of this product. The recommendations / data given above are based on information we believe to be accurate. They are intended to be used only as a guide for selection for end-use evaluation and do not constitute a product specification. Marbocote cannot assume responsibility for results obtained by use of this product as we have no control over end-use applications or handling. Marbocote therefore specifically disclaims any damage or loss of any kind in relation to the use of this product.