

Release Agent Mikon® 700 MC

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 revision: 14.09.2016
 author: JHE / sde
 print: 25.10.2016

Description:

Release Agent Mikon® 700 MC is an easy-to-use semi-permanent mould release agent that dispenses with the need for application of any waxes. Since Release Agent Mikon® 700 MC shows excellent adhesion to the mould's surface, there is no transfer of release agent to the moulded parts, rendering post processing possible without further treatments. Release Agent Mikon® 700 MC creates high gloss finished surfaces and minimizes release agent residues in the mould. The product exhibits a thermal stability up to 450 °C (842 °F), the application temperature range is between 10–80 °C (50–176 °F) allowing for touch-ups on hot moulds.

Application Fields:

Release Agent Mikon® 700 MC is a multi-purpose product commonly used in the processing of thermoset resins, polyester, epoxyd and phenolic resins.

Application:

Cleaning:

We recommend to thoroughly clean mould surfaces prior to the application of Release Agent Mikon® 700 MC. Our Cleaner Mikon® R-52 will be sufficient. In order to ensure all residues of fat and wax are removed completely, additional cleaning at room temperature using a fast-evaporating solvent is advisable.

Sealing:

New moulds, recently repaired moulds or moulds with a porous surface need to be treated with an appropriate sealer prior to their initial use. We recommend using our Sealer Mikon® 699 MC or Mikon® 799 MC, which has been specifically adjusted to incorporate our semi-permanent release agents of the Mikon® series.

Base coat:

Release Agent Mikon® 700 MC can be sprayed, but application is commonly done by using a soaked, yet not dripping wet clean lint-free cotton cloth. Start by applying the release agent to a small manageable surface. After approx. 10–15 s, use a second, clean and dry cloth to absorb the release agent excess and proceed by wiping in circular motion until a clear and dry film emerges. We suggest beginning to wipe along the outer border, approaching the inside. Repeat this procedure with the adjacent areas until all parts of the mould are evenly coated. In order to obtain a smooth and homogenous base coat, a minimum of 2 layers of Release Agent Mikon® 700 MC should be applied. Make sure, that the solvent is evaporated completely between each layer. After the final layer has been applied, allow the release agent to cure for about 40–60 min. Curing time can be reduced by heating the mould (approx. 50 °C (122 °F), 20–30 min.).

Mould touch-up:

The first touch-up should be performed after 5–6 demouldings in order to prepare the mould for a high number of demoulding cycles. Since the release film wears during production touch-up coatings should be applied frequently. Release Agent Mikon® 700 MC has been designed to incorporate and chemically bond touch-up layers of itself. Hence, curing time after touch-up reduces to approx. 10 min at room temperature. The appropriate frequency of touch-ups for sufficient release depends on mould configuration and abrasion parameters and has to be determined in individual on-site trials. We highly recommend to apply the touch-up prior to an observed decrease in release efficiency. This procedure will significantly reduce mould fouling due to build-ups and lead to extended mould service lives while ensuring a constant high quality of the

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Viernheimer Str. 70-76
 D-69469 Weinheim
 Postfach 10 07 29
 D-69447 Weinheim

Tel +49 (0)6201/99 83-0
 Fax +49 (0)6201/99 83-66
 info@muench-chemie.com
 www.muench-chemie.com

Bankverbindungen Weinheim:

Deutsche Bank AG
 BLZ 670 700 24
 Kto. 586 896 300
 Swift Code/BIC: DEUT DE DB 670
 IBAN: DE84 6707 0024 0586 8963 00

Volksbank eG
 BLZ 670 923 00
 Kto. 1 078 801
 Swift Code/BIC: GENO DE 61 WNM
 IBAN: DE40 6709 2300 0001 0788 01

moulded parts.

Release Agent Mikon® 700 MC can also be touched-up partially, refreshing the release agent film only on those mould areas experiencing higher wear. However, we recommend touch-up of the complete mould.

Partial release film repairs:

In the case of a partial, drastic decrease in release performance, the release coating should be partially repaired. Prior to doing so, the worn release film has to be removed completely 10 cm around the affected area with the help of soft abrasion, accompanied by wiping with solvent. Make sure that the mould's surface is thoroughly cleaned prior to application of a fresh base coat in the respective area in order to guarantee sufficient adhesion of the compensating layer to the mould.

Grounding is done as described above (Base coat). Even release of the moulded parts will be maintained if the repaired area is touched-up after each release for the first 4-6 demoulding cycles after the repair.

Technical Data

Composition:	resin mixture in solvent
Appearance:	colourless liquid
Density [g/cm³]:	approx. 0,8
Flashpoint [°C]:	> 25

Packaging:

Box	6 x 0,39	kg
Can	3,9	kg
Can	7,8	kg

Storage:

This product should be stored in tightly sealed containers and has to be protected from frost, heat and direct sunlight. If these rules are obeyed, the product can be stored for at least 24 months. The expiry date is stated beneath the production date on the labels of each container.

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ISO 9001:2008 ISO 14001:2004
QA 01 100 044778 QA 01 104 070719
Zertifizierungsstelle: TÜV RHEINLAND

Viernheimer Str. 70-76
D-69469 Weinheim
Postfach 10 07 29
D-69447 Weinheim

Geschäftsführer: Wilhelm Münch, Michael Münch
Amtsgericht Mannheim HRB 431102

Tel +49 (0)6201/99 83-0
Fax +49 (0)6201/99 83-66
info@muench-chemie.com
www.muench-chemie.com

USt.-IDNr. DE 144497299
Steuer-Nr. 47020/10016

Bankverbindungen Weinheim:

Deutsche Bank AG
BLZ 670 700 24
Kto. 586 896 300
Swift Code/BIC: DEUT DE DB 670
IBAN: DE84 6707 0024 0586 8963 00

Volksbank eG
BLZ 670 923 00
Kto. 1 078 801
Swift Code/BIC: GENO DE 61 WNM
IBAN: DE40 6709 2300 0001 0788 01