

BF 500 Liquid Release Wax

Release wax dispersion

Prod. No. 022-0500

Product description BF 500 Liquid Release Wax is a silicone- and toluene-free wax dispersion formulated in organic solvents for maintaining release wax treatment on GPR moulds whose operating temperatures do not exceed 120 °C on the surface. It replaces the loss of wax that occurs with each demoulding, smoothes slight unevenness and maintains or reinstates high gloss on mould surfaces. BF 500 is not a base wax; for this use BF 700 or BF 800.

Applications BF 500 has a double function of not only supplying release agent but also as a gentle cleaner for the most various types of residue on the mould (resin, gelcoat, polystyrene/wax build-up), however, it does not remove PVA release lacquers which are only water soluble.

| Specifications / technical data | Property | Test method | Value | Unit |
|---------------------------------|---------------------------|--------------|-----------------|------|
| | Colour | | slightly yellow | |
| | Density at 20 °C | DIN 53 217/2 | ca. 0,8 | g/ml |
| | Flash point | DIN 53 213 | + 47 | °C |
| | Non-volatile constituents | | ca. 3 - 4 | % |

Directions for use BF 500 has a tendency to form deposits when it has been stored for longer periods. For this reason, the container should be thoroughly shaken first before the material is used. BF 500 is then generously applied in sections approx. 1 m² with a non-fraying, cotton cloth and immediately polished to a high gloss with a dry, absorbent cotton cloth. The mould can then be used immediately without the usual waiting time wax pastes normally need. BF 500 should never be allowed to dry over a period of more than just a few minutes since polishing becomes extremely difficult when the wax starts to dry. Make sure that the cloth does not contain any synthetic fibres since these could dissolve in the wax and considerably impair the release function of the wax.

New moulds should be treated only with BF 700 or BF 800 over several demoulding cycles to give the still fresh wax film a chance to cure and sufficiently consolidate. Treatment with BF 500 should only begin after sufficient consolidation has taken place. Structured surfaces – as used for example on boat decks – should be additionally treated with a brush that is not too hard while polishing to make sure that wax residue is removed from the recesses. Smaller brushes with natural bristle and a wooden handle have proved to work best since synthetic materials might partially

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dissolve.

The surface gloss on moulds that have been in use longer and show clear polystyrene/wax build-up can often be returned to their original state by treating with BF 500 several times. But please remember: the thicker and therefore also more resistant the wax residue is, the more often treatment with BF 500 must be repeated. It is, however, an advantage that moulds do not have to be taken out of the production process and can be used further without interruption. Furthermore, time consuming treatment with aggressive mechanical or chemical cleaners becomes unnecessary which is a lot better for the surface of the mould and also increases its service life. It also makes renewed basic treatment with release wax paste unnecessary. The service life of a mould also depends, of course, to a high degree on its geometry, i.e. the shear forces it is subjected to during demoulding. In general it can be said that intensive maintenance of a mould with BF 500 – best after each demoulding – facilitates demoulding and is easier on the mould.

If, in spite of optimal care, resistance is felt after a certain number of production cycles (which is perfectly normal), a layer of BF 700 or BF 800 should be applied to refresh the base layer. The mould can then be used again as before.

Storage/Handling

This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 12 months in unopened, original containers stored up to a temperature of 25 °C.

Note: The Information given above is based on our current state of knowledge and experience. In view of the many factors that may influence working conditions and the application of our products, the user is not relieved from carrying out his own tests and experiments. No legally binding warranty of certain properties or suitability for a particular purpose can be derived from this information. It is the responsibility of the receiver or user of our products to observe proprietary rights as well as existing laws and regulations. The latest version of the corresponding EU Safety Data Sheet must also be observed.

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