KRAIBURG TYRE SOLUTIONS

MOULD RELEASE AGENT

PROMOL PK

PROMOL PK is a single-release, water based, silicone containing mould release agent, providing very efficient release effect for various applications in rubber manufacturing (molded rubber parts, pre-cured treads, shoe soles, solid tires).

Chemical composition

Physical state [at 20°C]	liquid
Appearance (color):	milky white
Active substances:	approx. 22 %
pH value (at 120 g/l):	approx. 8

Health & safety

The information in the Safety Data Sheet (SDS) must be observed.

Packing & storage

20 kg canister

PROMOL PK can be stored for at least 12 months.

Protect against heat. Not sensitive to frost.

Influence on compounds and vulcanizates

PROMOL PK spreads evenly on metal mould surface providing a uniform film. It supports the flow of compounds in the mould, even in moulds with complex geometries, preventing the formation of cracks and folds.

Vulcanisation and aging properties of the compound are usually not influenced by PROMOL PK. During vulcanisation the separation film is typically absorbed by the compound, leaving a shiny film on the cured article without a greasy or slippery surface haptic.

PROMOL PK typically does not leave residues on the mould surface which avoids mould contamination and reduces the frequency of mould cleaning and thereby increasing productivity.

Application

The product must be stirred before use. Dilute PROMOL PK with demineralised or distilled water using an appropriate, clean container. Originating from an active substances content of 22 % of the delivered product, it is advised to dilute it at a ratio 1:25 (1 part PROMOL PK + 25 parts water, resulting in 0,85 % active substances).

The ideal in-use concentration depends on the required release effect and conditions of use (e.g. mould geometry, stickiness of rubber compound) and should be determined by industrial evaluation over time. Excessive application should be avoided.

The diluted emulsion of PROMOL PK is sprayed to the hot mould prior each curing cycle.