

Innovative lubricants need experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. We will be glad to advise on the right lubrication for each application and also the range of support services we can offer.



Contact:



Lubricant Solutions: Mould Release Oils

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Choosing the right mould oil for each application is important to ensure a clean and easy release, without disfiguring the concrete or formwork. Our team can help ensure the right **RENOCAST** product is chosen to maximise efficiency and reduce downtime.

The FUCHS **RENOCAST** range includes a variety of specially designed mould release agents for concrete, block, roof tile and brick manufacture. Our cost effective mould oils are used significantly throughout the UK industry.



IN PARTNERSHIP WITH INDUSTRY



THE FUCHS GROUP

FUCHS is the world's largest independent lubricant manufacturer. The Group comprises 54 operating companies with 34 production plants worldwide.

In addition to products developed for industry in the UK, we have access to more than 2,500 industrial FUCHS products from within the Group. Customers can make use of FUCHS' technical expertise and product availability on a global scale, providing access to international fluid technology.



UK GROUP PROFILE

The headquarters of the UK subsidiary is located at our modern, highly automated production plant in Stoke-on-Trent. Our UK manufacturing site carries all the necessary approvals required: BSI AS 9100, ISO 9001, ISO 14001, ISO/TS 16949 and OHSAS 18001 as well as NAMAS accredited laboratory facilities.

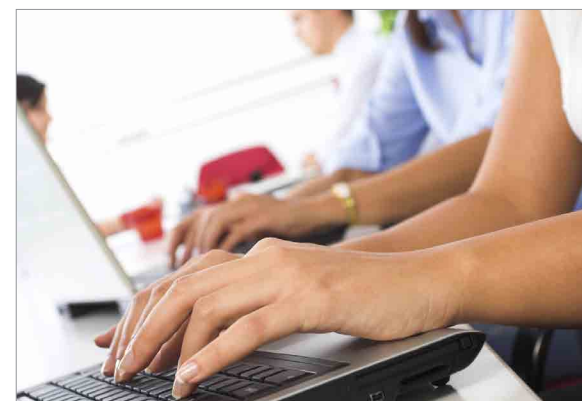
FUCHS is a full line supplier of lubricants and provides customers with local manufacturing, first-class logistics and specialist technical support.



RESEARCH & DEVELOPMENT

The FUCHS Group has a very strong focus on R&D. The UK labs are extremely well equipped and audited to the highest levels, having state-of-the-art equipment and highly trained staff with extensive technology and application knowledge.

FUCHS **RENOCAST** mould release agents have been specially designed by our experts, using innovative formulation technology, to provide a clean release whilst maximising the number of uses of the form. Our range of mould release oils includes products with low odour formulations, non-staining guarantees, increased flashpoints and corrosion protection additives.



BUSINESS SUPPORT

Product and technical support services are provided as part of FUCHS' business support solutions. Our team is able to provide assistance with customers' technical application queries as well as helping with common issues such as:

- The product not releasing properly due to the mould not being thoroughly cleaned before mould oil application
- White blemishes or staining occurring due to over application of mould oils
- The formation of blow holes caused by the wrong mould oil, containing too much solvent, being selected for the application.

MOULD RELEASE OILS FOR BRICKS

Brick manufacture consists essentially of mixing clay, other materials and water then either passing it through a desiring pug and cutting process or to a press where the bricks are formed. The cut bricks are cured and hardened at temperatures up to 150°C.

Designed using modern low viscosity solvents with the highest quality polar fatty or surface active release agents, the **RENOCAST BR** range is designed to provide outstanding results in all modern brick manufacturing equipment.

The **RENOCAST BR** range is a range of environmentally improved, operator friendly mould release agents designed for modern brick manufacturing techniques.

PRODUCT	Kinematic Viscosity at 40°C	Flash Point (PMCC)	Specific Gravity at 15.6°C	METHOD OF MANUFACTURE		PRODUCT	
				Extrusion & Wire Cut	Formed/ Moulded	Brick	Kiln & Refractory Bricks
RENOCAST BR00	1.1	44	0.805		✓		✓
RENOCAST BR10	1.9	76	0.800		✓		✓
RENOCAST BR20	2.1	79	0.800		✓		✓
RENOCAST BR30	3.0	72	0.800	✓		✓	
RENOCAST BR40	4.5	90	0.822	✓	✓	✓	
RENOCAST BR50	5.0	66	0.825	✓	✓	✓	
RENOCAST BR60	7.2	148	0.830	✓		✓	

MOULD RELEASE OILS FOR ROOF TILES

Roof tiles are manufactured using an extrusion process. Moulds are coated with a release agent prior to being fed into the extruder. Rollers press the tiles whilst the trowelling slipper compacts the tile, producing a smooth and level finish. The tiles are then cut to length before being cured and hardened.

agents, designed to aid in the manufacturing process of clay and concrete tiles, such as roof tiles and fire proof roof slates. The products contained within the **RENOCAST RT** range are designed to offer high "wetting" capability to ensure that a minimal volume is required to provide effective release from the mould and low cure retardation.

The **RENOCAST RT** products are specialist mould release

PRODUCT	Kinematic Viscosity at 40°C	Flash Point (PMCC)	Specific Gravity at 15.6°C	METHOD OF MANUFACTURE	
				Formed/ Moulded	Stiff Plastic
RENOCAST RT10	1.1	44	0.805	✓	
RENOCAST RT20	24.0	>100	0.873	✓	✓

RENOCAST
- products to maximise efficiency and reduce downtime

MOULD RELEASE OILS FOR CONCRETE

Concrete consists of a silicone-calcium complex cement plus a bulk aggregate. The consistency of the slurry during the initial reaction is directly related to the percentage of water in the mix. In its initial semi-fluid state, concrete can be moulded into almost any form or shape.

RENOCAST CM is a range of highly efficient mould release agents designed for the various formwork materials and application methods found in the production of concrete.

The **RENOCAST CM** range is based on innovative technology, designed to maximise the cost effectiveness of formwork face materials. As each formwork material has a different porosity and micro-surface texture, the selection of a suitable release agent is paramount. The **RENOCAST CM** range is designed to offer optimum performance for all surface types.

PRODUCT	Kinematic Viscosity at 40°C	Flash Point (PMCC)	Specific Gravity at 15.6°C	TYPE		USES					
				Wet Cast	Dry Cast	Concrete Sections	Concrete Blocks	Vertical Sections	Decorative Concrete	Pipes by Mould	Slabs
RENOCAST CM10	2.2	71	0.805	✓		✓	✓				✓
RENOCAST CM20	3.0	70	0.823		✓	✓	✓	✓			
RENOCAST CM30	5.5	105	0.820	✓		✓	✓				
RENOCAST CM40	7.3	150	0.824	✓	✓	✓	✓		✓		✓
RENOCAST CM50	17.0	154	0.902	✓	✓	✓	✓	✓	✓	✓	✓
RENOCAST CMB10	11.3	100	0.875	✓		✓	✓	✓			

MOULD RELEASE OILS FOR BREEZE BLOCKS

Breeze blocks consist of a mixture of cement, gravel, sand, ash and water and are generally manufactured to have a smooth finish. Breeze blocks often have hollow centres to reduce weight or improve insulation. Some manufacturers produce interlocking blocks which can speed up the installation or building project.

The **RENOCAST BL** products are high viscosity mould release

agents designed for the production of common, breeze and foundation blocks. Formulated using highly refined mineral oils, combined with effective release additives and corrosion preventatives, the **RENOCAST BL** products are modern, cost effective mould release agents.

PRODUCT	Kinematic Viscosity at 40°C	Flash Point (PMCC)	Specific Gravity at 15.6°C	USES
				Breeze Blocks
RENOCAST BL10	70	>100	0.890	✓
RENOCAST BL20	100	>100	0.882	✓

RENOCAST
- a range of specially designed mould release agents

