

Cold recycling quality starts in the laboratory.



**BTE 02 Lab Unit**



# BOMAG BTE 02 Lab Unit.

**"Cold Mix-in-Place" recycling is a method offering cost savings of up to 30 % on road repairs compared to conventional methods.**

However, this assumes that the process is properly organised in terms of plant and labour, through to implementation on site. The production of cold mix in the test lab plays a key role in the planning process and is the only way to avoid expensive on-site errors in the run-up to operations.

To simulate the production of foamed bitumen from a BOMAG recycler, the BOMAG BTE 02 foamed bitumen lab unit is required plus a BOMAG B53 mixer.

## The recycler in the lab

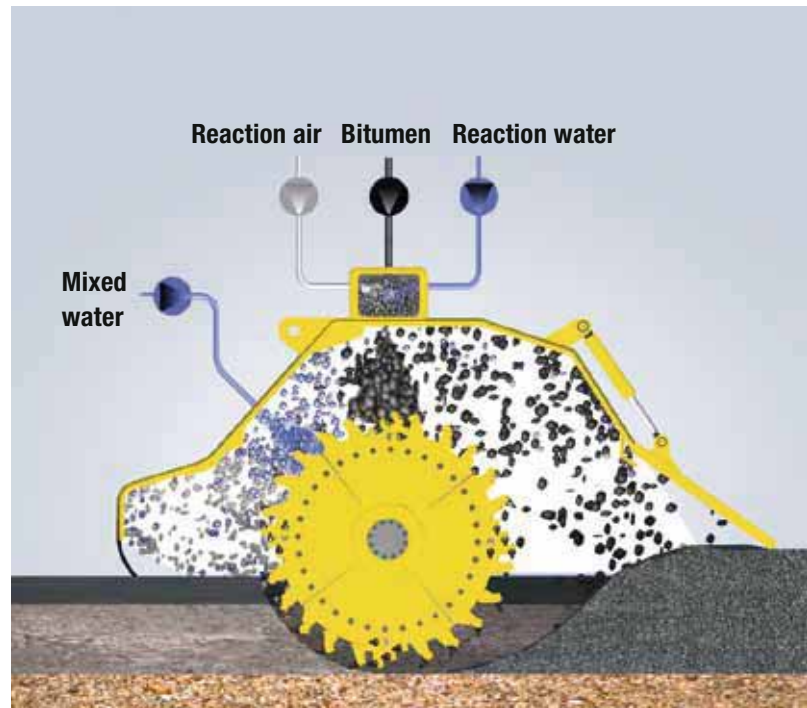
The foamed bitumen lab unit is used to determine optimum foaming for the bitumen being used (also called dwell time and expansion) in a series of trials. Practical guidelines for bitumen temperature, reaction water and reaction air can be calculated using the same components for foam production as used on BOMAG recyclers themselves.

This is a precondition to ensure quality on-site from the start.



### The core of the process: foam production

Foamed bitumen is primarily used to ensure even distribution of the bitumen in the mix being prepared. This involves hot bitumen (160 – 180 °C) being sprayed into the expansion chamber through a valve. The bitumen foams up massively by adding cold water (1 – 5% of the bitumen volume) and compressed air. The volume expands by 15 to 20 times the starting volume. The dwell time for the foam (time until the foam starts to degrade) guarantees uniform distribution in the mix.



Foamed bitumen production and metering into the mixing chamber.

### The mix makes the difference

If the foamed bitumen produced in the BOMAG BTE 02 is fed directly into a BOMAG B53 lab mixer with granular materials from the site, then mixes can be prepared to create specimens. In producing the specimens, properties of the cold mix can be tested under laboratory conditions.

This saves time and costs, and sets quality standards.



Compact and with similar components to BOMAG recyclers, the BTE 02.

Head Office / Hauptsitz:  
BOMAG  
Hellerwald  
56154 Boppard  
GERMANY  
Tel. +49 6742 100-0  
Fax +49 6742 3090  
info@bomag.com

BOMAG Maschinen-  
handelsgesellschaft m.b.H.  
Porschestraße 9  
1230 Wien  
AUSTRIA  
Tel. +43 1 69040-0  
Fax +43 1 69040-20  
austria@bomag.com

BOMAG MARINI EQUIPAMENTOS LTDA.  
Rua Comendador Clemente Cifali, 530  
Distrito Industrial Ritter  
Cachoeirinha – RS  
BRAZIL  
ZIP code 94935-225  
Tel. +55 51 2125-6677  
Fax +55 51 3470-6220  
brasil@bomag.com

BOMAG (CANADA), INC.  
3455 Semenik Court  
Mississauga, Ontario L5C 4P9  
CANADA  
Tel. +1 905 361 9961  
Fax +1 905 361 9962  
canada@bomag.com

BOMAG (CHINA)  
Compaction Machinery Co. Ltd.  
No. 2808 West Huancheng Road  
Shanghai Comprehensive  
Industrial Zone (Fengxian)  
Shanghai 201401  
CHINA  
Tel. +86 21 33655566  
Fax +86 21 33655508  
china@bomag.com

BOMA Equipment  
Hong Kong LTD  
Room 1003, 10/F Cham Centre  
700, Castle Peak Road  
Kowloon  
HONG KONG  
Tel. +852 2721 6363  
Fax +852 2721 3212  
bomahk@bomag.com

BOMAG France S.A.S.  
2, avenue du Général de Gaulle  
91170 Viry-Châtillon  
FRANCE  
Tel. +33 1 69578600  
Fax +33 1 69962660  
france@bomag.com

BOMAG (GREAT BRITAIN), LTD.  
Sheldon Way  
Larkfield, Aylesford  
Kent ME20 6SE  
GREAT BRITAIN  
Tel. +44 1622 716611  
Fax +44 1622 710233  
gb@bomag.com

BOMAG Italia Srl.  
Via Roma 50  
48011 Alfonsine  
ITALY  
Tel. +39 0544 864235  
Fax +39 0544-864367  
italy@bomag.com

FAYAT BOMAG Polska Sp. z o.o.  
Ul. Szyszkowa 52  
02-285 Warszawa  
POLAND  
Tel. +48 22 482 04 00  
Fax +48 22 482 04 01  
poland@bomag.com

FAYAT BOMAG RUS OOO  
141400, RF, Moscow region  
Khimki, Klayazma block, h. 1-g  
RUSSIA  
Tel. +7 (495) 287 92 90  
Fax +7 (495) 287 92 91  
russia@bomag.com

BOMAG GmbH  
300 Beach Road  
The Concourse, #18-06  
Singapore 199555  
SINGAPORE  
Tel. +65 6 294 1277  
Fax +65 6 294 1377  
singapore@bomag.com

BOMAG Americas, Inc.  
2000 Kentville Road  
Kewanee, Illinois 61443  
U.S.A.  
Tel. +1 309 8533571  
Fax +1 309 8520350  
usa@bomag.com