

The complete Refractory Expert



Refractory Expert

Until now, 'refractory management' software simply recorded brick installed in a kiln. **WinBrix® Refractory Expert** is a new concept. It works with you, in the way you work – planning, buying, stocking, installing and documenting every aspect of refractory brick and castable used in your plant – pre-heater, risers, cyclones, kilns and coolers.

WinBrix helps you to make decisions based on what works best for you, in your kiln, with your process, with your budget. WinBrix® Refractory Expert is designed to help you increase clinker production, save engineering man-time, reduce costs and increase efficiency. WinBrix® Refractory Expert guides you step by step to help make the best decisions and manage your materials for the maximum campaign length and optimum efficiency.

WinBrix can be installed on a single PC in the production or maintenance office or networked through the plant to put the information you need at your fingertips. WinBrix® Refractory Expert sets the industry standard and is suitable for the smallest to the largest plants. WinBrix is a stand alone, dedicated package, ready to use without any additional third party spreadsheets or database software.

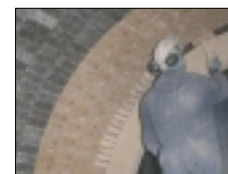
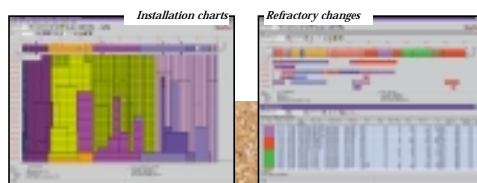


So easy to use

WinBrix has a picture based, user friendly interface incorporating "Point and Click" data entry to get you up and running fast. Fuel changes, stoppages, clinker production, drilling or lining thickness are entered in minutes. On-line 'Tip' and Context sensitive 'Help' are there to assist you at every step and to see the results you can choose from tables, 2D or 3D graphs at the click of your mouse.

Refractory charting at a glance

WinBrix® Refractory Expert creates installation charts instantly with materials and their performance shown at a glance. No more laborious hours entering data or drawing paper installation records. Lining charts, performance charts, refractory service, production, predicted brick life and much more!



WinBrix® Standard

Installation Planning

WinBrix works the way you work. Before a shut down you can create multiple plans for your proposed replacements, check on availability of materials and compare the costs. Try out different lining plans and installation methods and compare the results with your budget and stock. When the actual installation is done, simply click the button to install the plan and your new lining chart is created automatically.

Centralised Database

WinBrix contains a huge database of standard ISO, ASTM and VDZ brick sizes as well as a large amount of pre-entered data on Brick and Castable materials. Prices, indications for use, densities, cautions and notes for optimum methods of installation are shown at a glance.

WinBrix Refractory Expert

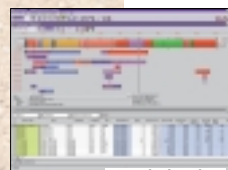
When it comes to choosing the right refractory bricks, castable and installation methods **WinBrix® Refractory Expert** is at hand to help you make the best decisions in respect to cost, performance and brick life. You make the decisions as WinBrix Refractory Expert puts the information at your finger tips. WinBrix puts you in total control.

Associated Related Data

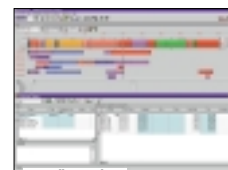
WinBrix incorporates data from a wide variety of external applications directly into its database. Photography, spreadsheets, graphs, reports, CAD, shell scan images and data can all be displayed.

Analyse, Report and Export

WinBrix prepares the data automatically for you to present professional reports. Use the built in report generator to see stock levels, clinker production, cost comparisons for planned stoppages or 'What if?' analyses. Alternatively, you can export the data you need to your preferred spreadsheet or word processor to incorporate in your management report or purchasing requirement. WinBrix data can also be exported directly into WinCem® kiln shell scanner software for temperature correlation.



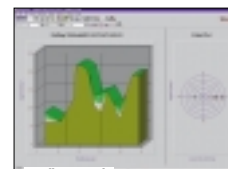
Centralised Database



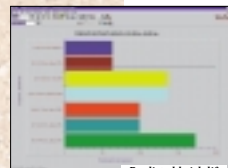
Installation plans



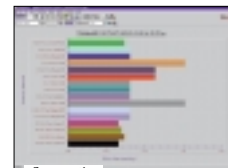
Production data



Drilling records



Predicted brick life



Consumption

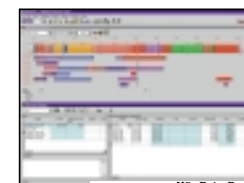
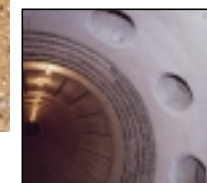


WinCem Shell scanning



Integration to standard software

The **WinBrix Pro** package provides complete installation, planning, charting and analysis for all parts of the plant. All refractory vessels, regardless of shape are included – kilns, pre-heaters, cyclones and all types of cooler etc.



WinBrix Pro

WinBrix® SQL Group Reporter

The WinBrix Group SQL Reporter is an integrated data management system suitable for plants with multiple kiln lines as well as multiple plants. A WinBrix standardization database is distributed to each site to facilitate uniform terms used with each program. A plain text interface enables data, graphs and reports to be generated from any of the sites depending on user selected index terms. Performance figures can be seen instantly for similar kilns, coolers or refractories. The WinBrix Group SQL Reporter also supports simultaneous foreign language usage within the group for both plant software operation and integrated reports.



WinBrix® SQL Group Reporter in Action! – Lafarge Corporation

The Lafarge Corporation have installed Thermoteknix Systems Ltd's WinBrix® Refractory Expert throughout North America in order to optimize brick life. WinBrix® allowed the Lafarge Corporation to successfully assess the performance of a brick in one kiln at a time. However, this was not enough for Lafarge CTS in Montreal. What they needed was an effective, powerful tool to evaluate brick performance in different situations, for instance:

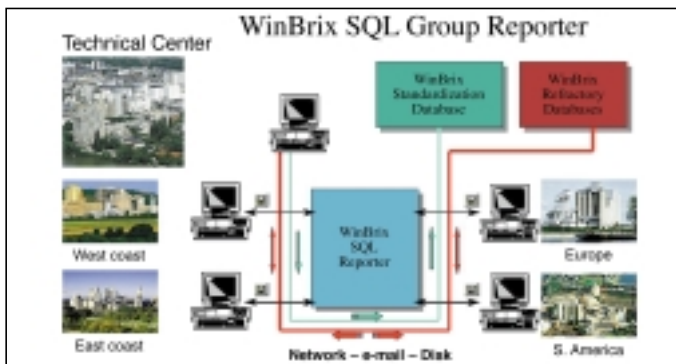
- In one or several given zone(s) over all of their kilns within the Lafarge Corporation for a selection of brick.
 - In a given zone, over the kilns of comparable processes, for a selection of brick.
- An upgrade to WinBrix® SQL Group Reporter from the WinBrix® Standard package allowed Lafarge Corporation to determine standard brick consumption per kiln process type of their achievable targets for 15 of their plants. Refractory from every part of each Lafarge Corporation plant is combined into a single database

that can be easily searched on relevant clear text terms with analysis and reports produced automatically. The WinBrix® SQL Group Reporter tracks and accounts for every brick and castable throughout each Lafarge plant from pre-calciner to cooler.

The direct benefits included the ability for Lafarge to select the best performing bricks in each zone for each process and focus their negotiation efforts on just these particular bricks. The WinBrix® efforts help Lafarge to rationalize their brick assessment and supplying process.

For the Lafarge purchasing team, the outcome is imperative. They are now able to consolidate the brick actually installed, whereas before they only knew about what brick was being purchased.

Said Senior Process Engineer Paul Denis, "Overall, WinBrix® is an instrumental part of a Corporate action that should lead to a significant reduction of our refractory costs. This result would not be achieved without the consolidation we can get through the WinBrix® SQL Group Reporter."



Thermoteknix Systems Ltd., Mount Pleasant House, Mount Pleasant, Cambridge CB3 0RN, England
Tel: Int + 44 1223 500 777 Fax: Int + 44 1223 500 888
e-mail: sales@thermoteknix.com Web site: www.thermoteknix.com

Acknowledgements. Thermoteknix wish to thank the following for their assistance, technical information and provision of photographs: Höganas Bjurf, Sweden; Magnesita, Brazil; Hepworth Refractories, UK; Veitsch Radex, Didler, Austria; Harbison Walker, USA; Rugby Cement, UK; Blue Circle Cement, UK; SG Blair Ltd UK; Refratechnik, Germany; Lafarge Corporation.

All trade marks acknowledged. WinBrix® and WinCem® are registered trade marks of Thermoteknix Systems Ltd. Thermoteknix pursues a rigorous policy of ongoing product development and specifications are subject to change. Printed on environmentally friendly paper made with 100% chlorine free pulp. WB 3k 04/00

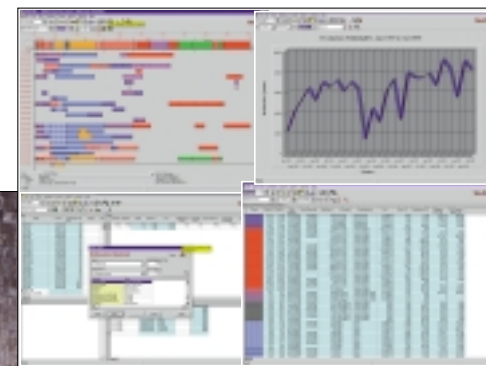
System requirements (minimum)

Windows 3.1, '95, '98, NT or later.
8 Mb RAM. 10 Mb hard disk space.

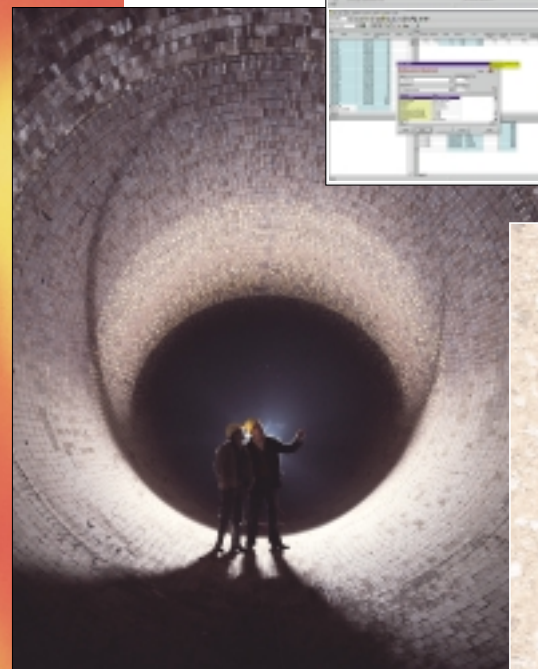
WinBrix®

Standard Pro SQL Group Reporter

Plan – Track – Analyze – Document
Refractory Expert throughout your plant



REFRACTORY EXPERT



- Prolong service life
- Reduce refractory costs
- Increase production
- Plan repair work
- Reduce inventory
- Simplify stock management
- Optimise installation techniques
- Produce documents, charts and reports at a touch

