



THE JOURNAL OF THE CONCRETE REPAIR ASSOCIATION

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What has the Government done for the concrete repair industry?

The Coalition Government is now a little over a year old. It came into power primarily with the promise of sweeping changes to prevent UK plc from 'going bust'. UK plc simply had to stop spending money. The previous Government's policy of buying our way out of trouble had to come to an end. There was no more fiscal cash available and self-financing our recovery was not working. The writing was on the wall. Everyone who has been part of the construction industry in times of recession in the past (remember the three day week?) knew exactly what was going to happen next.

It would appear, however, that things probably aren't going to get as bad as they did in the early seventies, but you never know! Some say that a double dip remains a threat.

So what did happen in the early days of the new Coalition Government? First to go was the 'Building schools for the future' programme. The 20 year plan to invest £55bn in our school building regeneration programme was scrapped overnight. As far as the Concrete Repair Association was concerned, that was goodbye to an awful lot of repair and refurbishment work.

Many of the 'Quangos' set up to spend billions of pounds in the construction sector were dissolved. They included the Commission for Integrated Transport, British Waterways, the National Housing and Planning Advice Unit, the Olympic Legacy company, the London Thames Gateway Development Corporation and the Design Council - the advisory panel on standards for the planning inspectorate. The carnage probably had little direct effect on CRA members, but it did result in a serious dent in construction companies' workload and we all know what that leads to impostors!

Furthermore, capital expenditure by Local Authorities is set to fall by 30% by 2014/15, transport by 11%, health by 17% and education by 60%; a total of £81bn over the next five years. A very large proportion of this will have a direct impact not only on construction in general, but importantly the specialist refurbishment sector.

In the concrete repair sector we have already witnessed the impact of the cuts, with the collapse of Connaught and ROK - two of the larger CRA members and two that you would have thought could weather the storm. The demise of these two organisations was quite clearly the result of too many eggs in the social housing and public spending basket.

So is there a light at the end of the tunnel?

As most of the cuts highlighted didn't come into force until April of this year, following the Comprehensive Spending Review, their full effects have not yet really hit the market. Surprisingly, many CRA members are continuing to report a very high enquiry level. They are a little cagier when questioned about orders received, but all appear buoyant and reasonably confident about the future.

The latest industry figures from the Office for National Statistics (ONS) are not so good, however, with a reported drop in construction output of 4.7%. But this doesn't necessarily mean that specialist activities have reduced by this amount. In many situations clients who have had to postpone, or even cancel new build schemes,



very often have to 'make do and mend', which is good news for the refurbishment market.

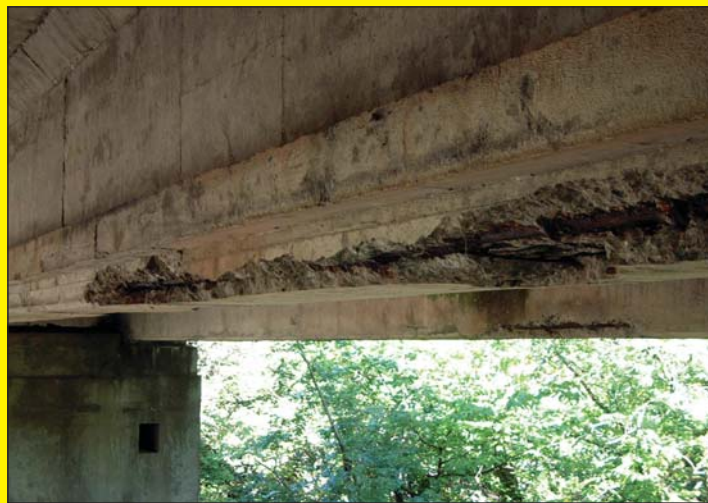
The more recent construction press articles are also more upbeat about the future, calling the ONS figure of a 4.7% fall in output as 'baloney' and probably more to do with the bad winter than the underlying trend of the economy. Barbour ABI says that new orders for the first quarter 2011 are nearly 8% up on the same period last year. The Chartered Institute of Purchasing & Supply (CIPS) reports growth for the third month in a row in the housing market. And more pertinent to our specialist sector, the National Specialist Contractors' Council (NSCC) reports that more contractors are seeing a

rise in the number of enquiries and orders for the first time in three years.

So, has the new Government done anything for the concrete repair sector?

Well, they have taken a lot from us on the one hand, but have potentially give some back with the other - how much will only become evident with time. One thing is certain, confidence does appear to be growing despite threats of a double dip recession and the ONS suggesting that construction activity has fallen by nearly 5%, which is clearly wrong. The CRA believes that by the start of next year things will start to look a lot rosier for Association members and the concrete repair industry in general.

CRA SETTING HIGH STANDARDS



In order to set the highest concrete renovation standards and to meet client requirements and expectations, the CRA decided (eighteen months ago) that all full members should be QA Accredited to environmental standard BS EN ISO 14001 by the end of June 2011.

Recently, the Association ruled that any member not complying by this date would be suspended for a 3-month period, after which (should they still not comply) they would be excluded from membership altogether.

This is a strong message from the Association, which is keen to further enhance standards within this sector of the construction industry. Currently five CRA members, from a total of thirty-five full members (14%), have still to achieve the standard, which will, henceforth, become a condition of membership.

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www.cra.org.uk

CRA SETTING HIGH STANDARDS

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BS EN ISO 14001 specifies the requirements for an environmental management system (EMS). It provides a framework around which an organisation can control the environmental impacts of its activities, products and services and to continually improve its environmental performance. Thus, it applies to those environmental aspects that the organisation can control and over which it can be expected to have an influence.

BS EN ISO 14001 is applicable to any organisation that wishes to (1) Implement, maintain and improve an environmental management system, (2) Assure itself of its conformance with its stated environmental policy, (3) Demonstrate such conformance to others, (4) Seek certification/registration of its environmental management system by an external organisation and (5) Make a self-determination and self-declaration of

conformance with this international standard.

The CRA was originally formed in 1989 specifically to set high standards of workmanship and technical competence in the specialist area of concrete renovation. The Association believes that by setting such self-regulating standards and procedures, engineers, surveyors, authorities, clients and other specifiers are able to confidently select from established professional organisations for concrete repair and related projects.

In addition to demonstrating a proven track record and overall proven ability, as well as to conforming to the Association's Codes of Practice and to its training requirements, each full specialist contractor and product manufacturer member is also obliged to be Q.A. Accredited to BS EN ISO 9001 as an essential requirement of membership.

MAJOR MAKEOVER FOR CRA WEBSITE

The CRA has gone live with a completely revamped and updated website in a new user-friendly format with improved navigation and many other new features.

Pre-eminent among the facilities is a framework to assist the selection of CRA member contractors when forming a project tender list.

The website also provides access to up-to-date information on performance and quality standards, health & safety matters, CRA codes of practice and training initiatives.

The site also contains new trailer illustrations of the CRA 'Road Show' presentation programmes that are available to relevant groups, together with a brand new section containing 'case studies' from CRA members.

Copies of CRA Advice Notes on repair, structural strengthening and electrochemical rehabilitation techniques can also be downloaded, as well as past editions of 'Cracking Matters'.

In addition to allowing access to CRA news announcements and previous E-Bulletins, interested individuals can also sign up to receive the Association's quarterly newsletter, which contains the latest industry updates and member company developments.

Those responsible for specifying, setting up and/or controlling concrete repair projects (and related disciplines) can keep updated with developments in this specialist area of construction by regularly visiting the new CRA website, which can be found at: www.cra.org.uk

CALL FOR EN CASH RETEN

By: The National Specialist Contractors Council (NSCC)

There is increasing recognition within the construction industry that cash retentions are no longer effective, with the best guarantee of quality coming from a competent and qualified supply chain, which delivers to the highest standards.

The National Specialist Contractors Council (NSCC) 'No Retention' policy, launched at the start of 2011, recommends that specialist contractors do not accept retentions. This reflects the position of the Governments in England and Scotland, which have publicly stated that where retention is not withheld from the main contractor, it should not be withheld from sub-contractors in the supply chain.

At the launch of the NSCC 'No Retention' policy, Crossrail announced that it will not be including cash retentions in its contracts and does not expect cash retentions to be withheld from the supply chain. Project bank accounts will be used on Crossrail projects to increase transparency and make sure that cash retentions are not imposed on the supply chain. Indeed, Crossrail's Procurement Policy actually states 'There is little evidence to show that retention results in better quality work and the practice has a significant impact on the contractor's cashflow'

As the biggest infrastructure project in the UK, Crossrail is leading the way on this issue and the NSCC is confident that others will follow and recognise that there are

better guarantees of quality than cash retention.

Competent specialist contractors will always return to site in the event of defects in their work because their professional integrity demands it and their professional reputation depends on it – not because they have retention withheld against them. As critical partners in the delivery of projects, specialist contractors benefit from having their retention made available to them, as it improves their financial stability.

There are alternative forms of security that can be offered to clients such as retention bonds. A retention bond is an agreement between a specialist contractor, its client and

NSCC No Retention Policy

The NSCC believes that the withholding of retention is an outdated practice which is unnecessary in the modern construction industry. The best guarantee of quality lies in the choice of a competent and qualified supply chain and NSCC Specialist Contractors are committed to seeking to attain the highest applicable standards in health and safety, training and technical performance. The NSCC recommends that, whilst its specialist contractors are free to negotiate their own respective contractual terms, they do not accept cash retentions.

RAGE AGAINST

Allen's observations

Caroline, who is our work experience girl (or 'intern' as we must now say) sits in a corner of the office, adjacent to the stationary cupboard with a nice view of the car park.

This is a peaceful backwater from which she can surf the net, text her friends and occasionally fill in the odd form or two. So it was quite a shock when her daily routine was recently interrupted by the sound of a beeping alarm and a whirl of electronics. Yes, we had received a fax!

Now it's been a while since this happened and Caroline was understandably put out by his unexpected event – to the extent that she felt the need to text most of her friends and colleagues. She may also have tweeted, but I cannot comment since I am no expert in this particular method of communication, other than in some way it seems to involve Stephen Fry.

However, once she realised what had happened her mood abruptly changed from shock to outrage. Who in their right mind, she demanded, would try and convey a message in this manner when they could email, text or even twitter their facebook (or whatever it is you do).

Our office, as I may have mentioned before, has a tendency to divide along party lines on occasions like this.

On the one hand are those of us who fondly remembered the days when everything came by fax – indeed one of our Directors would fax me from less than ten feet away, prompting a walk the entire length of the office to pick up a piece of paper generated by the person on the next desk! On the other hand – a group of Young Turks (who one might describe as the 'Carolinistas') would stand firmly behind an Intern's right not to be disturbed by incoming paperwork.

The office debate about the subject continued sporadically through the working day until one of our more senior members of staff made the comment that life was a sight easier when people just spoke to each other. This made me think how right he was.

Before the 1980s, when I left the office I was out of contact and the only chance of an interim message getting to me was if someone called ahead to my destination. To the best of my knowledge no particular disasters occurred due to my being incommunicado and people who needed to speak to me cultivated the gift of patience.

ND TO TIONS

a third party known as a surety provider, which acts as a guarantor between the two parties. The bond agreement states that, in return for the client not withholding cash retention, the surety provider will pay the client up to the amount that it would have had by way of cash retention, should the specialist contractor fail to carry out the works or remedy defects.

A retention bond is a win-win solution; it provides the client with the monetary protection it requires, whilst improving the financial stability of the specialist contractor by making the cash retention available. The client also has the additional benefit of knowing that a specialist contractor that is able to offer a retention bond has had its financial standing vetted by the surety provider.

The NSCC No Retention Policy is supported by NSCC's 32 member trade organisations (including the CRA) and there is a wealth of guidance and information on eliminating cash retentions on the dedicated page of the Fair Payment Campaign website at:

www.no-retention.co.uk



NOT STRICTLY CONCRETE REPAIR ...!

The CRA technical helpline receives enquiries from the strangest of places ... even war zones! A recent example was a request for assistance from Afghanistan's Helmand Province.

The army captain advised that he was not sure as to the exact cause of the damage. He suspected that it was not a result of impact/explosion, but more a case of poor material/workmanship combined with relatively high environmental variations.

Apparently the remainder of the beam was untouched, as were 20 or so other identical beams along the length of the structure.

He was seeking information as to the most suitable means of correcting the damage. Due to the poor contractor base available and the variability in material supplies, a simple repair would definitely be preferred, he advised. The CRA is always pleased to assist but in this case, particularly so.



The A to Z of concrete repair

The 2011 edition of the popular CRA Members Directory pocket booklet is now available, free of charge.

The booklet contains details of the CRA's specialist contractors, product manufacturers, distributors and Associate members and is specifically designed to be of practical every-day use to Clients, Specifiers, Consultants, Surveyors and Local Authorities seeking recognised specialists involved in the practice of concrete repair and allied activities.

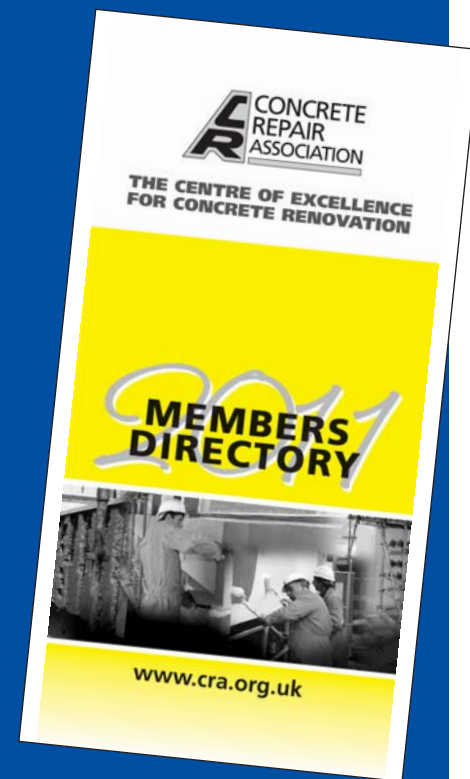
To facilitate selection when compiling tender lists for concrete repair work, each contractor's entry includes details of contract values catered for, the company's largest contract to date, its total turnover, the value of its concrete repair related business and its geographical area of operation.

Each page entry also lists the company's head and regional office locations and contact details, as well as a description of the company's specialist concrete repair capabilities.

In addition, the document carries an easy-to-follow cross-comparison reference grid, highlighting each member company's third party accreditations including BS EN ISO 9001, BS EN ISO 14001 and ISO (OHSAS) 18001.

The Directory also contains information regarding concrete repair standard - BS EN ISO 1504, gives details concerning the Association's technical helpline, its NVQ/CSCS related training scheme and its Codes of Practice, to which each member has committed. It also provides information regarding the Association's free CD-ROM, which contains audio-visual programmes and useful Advice Notes.

For your copy, telephone: 01420 471615, or email: publications@cra.org.uk



T THE MACHINE



Then in 1987 I was equipped with a car phone. Suddenly little could wait for me to finish a journey - I had to be contacted on the move. Then came the first mobile phones (remember those house brick size monstrosities?) and then we went digital. Last year my MD called me from his holiday in Kenya to ask if everything was alright. I wonder what he would have done had I said no? Perhaps he would have commandeered a safari jeep to get to the airport and chartered a private jet?

No, I have to admit that these electronic gizmos - faxes, phones, computers and all the rest, are wonderful gadgets. But they do convert every simple incident into a matter of urgency that has to be answered immediately, or catastrophe will befall us all.

Well, I would suggest that nine out of ten catastrophes will stay well away and also that if we treat everything as urgent, how will we ever deal with a real crisis should it occur? Perhaps we should take a step back and start talking instead of tweeting - we might find that we are all a lot better off.

INDUSTRY Developments

CRL SOLVES SEMINAR COST PROBLEM

During the current downturn in the construction sector, it has been increasingly difficult for delegates to attend CPD seminars when there is a cost involved. Professional people such as Chartered Engineers and Surveyors, however, still need these events in order to advance their knowledge and maintain their registered status.

Concrete Repairs Ltd (CRL) has recognised the problem and now provides a range of in-house presentations specifically tailored to the needs of a particular company or local authority. The presentations cover:

- The new EN1504 European Standard for concrete repair
- Strengthening using composites
- Corrosion control using cathodic protection
- Liquid applied waterproof membranes for bridge decks.

CRL also organises free one-day regional seminars on topical subjects such as bridge bearing replacement and the new Concrete Society TR55 Third Edition "Design Guidance for Strengthening Concrete Structures Using Fibre Composite Materials", which will be published later this year.

E-MAIL: JDrewett@concrete-repairs.co.uk WEBSITE: www.concrete-repairs.co.uk



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OSCAR ON THE MEND WITH PAREX



Irish writer and poet, Oscar Wilde, is feeling much better thanks to a makeover using high strength Tecroc repair materials from CRA manufacturer member, **Parex Ltd.**

An SOS to help restore the famous scribe's statue in Dublin was received by Parex's Republic of Ireland distributor after Oscar had literally lost his head.

The statue, which was commissioned during the 1990s by the Guinness company and is situated in Merrion Square, across the road from the "Dail" (the Irish Parliament), required the new head after suffering from the rigours of the weather, wear and tear. It had been originally carved from various types of stone including Thulite, Jade and Granite, acquired from countries all over the world.

Parex' distributor had no hesitation in recommending Tecgrip CAS Cartridge and Thixotropic Joint Filler to restore the bond between the statue's body and its missing components after they had begun to crack. The hands were replaced at the same time.

The original sculptor, Danny Osbourne, returned to replace the items (originally in porcelain) by new ones replicated in jade, which is a much harder material. These were bonded into place with the same high strength materials used on the original in 1997. The artist confirmed his satisfaction with the Parex products.

PAREX LTD Tel: 01827 711755

HISTORIC BRIDGE AWARD FOR CRL



CRA contractor member, **Concrete Repairs Ltd (CRL)**, has won the Institution of Civil Engineers Historic Bridge Award for the work carried out to repair Bideford Bridge for Devon County Council.

The 24 span Grade One Listed medieval bridge over the tidal River Torridge was widened in 1925 with concrete cantilever footways. The concrete, however, had since deteriorated due to corrosion of the steel reinforcement in the marine environment.

CRL repaired the concrete and installed one of the largest impressed current cathodic protection systems in the country. The £1.8m contract was completed on time and with minimal interference to the traffic on the bridge.

CRL secured a record 32 orders (value £13.3m) in March 2011, ranging in value from £2000 to £6.3m. Orders included a £3.8m contract from Edinburgh CC for the refurbishment of two tower blocks, a £1.2m contract from Highland Council for a major bridge repair and a £6.3m contract to repair four multi-storey car parks in Peterborough.

CONCRETE REPAIRS LTD: 020 8288 4848

NATIONAL THEATRE PREDICTION PROVES TRUE



Denys Lasdun's National Theatre, located at Kings Reach on the South Bank of the River Thames, is a grade 2 listed structure. Completed in the 1970s, the style is 'brutalism', leaving the concrete roughly finished after pouring and left exposed, both externally and internally. The imprint of the timber formwork remains present on the final surface.

POPPY FACTORY REFURBISHED BY CEMPLAS



The British Legion was formed in 1921 in the aftermath of the 1st World War. The following year the organisation acquired an old factory and five disabled men were employed to make poppies and wreaths. In 1925, the factory became known as 'The British Legion Poppy Factory Ltd' and later, in 1972, the prefix 'Royal' was added to the title.

By this time the number of men employed had grown to 150 and larger premises became necessary. A former brewery in Richmond, London, was purchased and converted. In just over ten years, the factory employed some 300 disabled ex-servicemen and to this day, continues to produce the now well-known remembrance insignia. The old building, however, was in need of attention.

CRA members **Cemplas Waterproofing and Concrete Repairs Ltd** was appointed as principle contractor to carry out extensive concrete repairs to the building's external columns and façade.

Following a survey and investigation the front external face of the columns were removed and the exposed steel beams cleaned to remove the extensive corrosion. Additional steel reinforcement was fixed before pull-off tests were undertaken to ensure the desired bond strength had been achieved.

A contract condition was that the repaired columns had to exactly match the columns removed. Shutters were therefore formed and Sika Armocrete poured in. Following removal of the shuttering, defects were bagged-in using Sika Monotop 620. After completion, a coat of Sikagard 552 W was applied to the new columns and a further two coats of Sikagard 550 W were applied to the entire elevation to provide a protective and decorative anti-carbonation finish.

CEMPLAS WATERPROOFING & CONCRETE REPAIRS LTD: 020 8654 3149

In 1976, when asked what the building would be like in 20 years time, Denys Lasdun replied, 'It's going to weather. It's going to streak and the streaks are going to have white patches, which they are already getting and which I think will be beautiful - don't forget that stone streaks. I want the concrete to weather, so that in the end lichen will grow on it and it will become part of the riverscape'

As predicted the structure has weathered, but it has also suffered damage due to the environment and internal and external modifications. As part of a major overhaul of the building, sympathetic repairs are now required.

To this end, CRA member, **Structural Renovations Ltd**, was commissioned to carry out colour and texture matched concrete samples, in a number of locations throughout the complex, using a range of mix designs from a variety of sands and cements. The company will also survey the concrete by abseiling the Olivier and Lyttleton Theatres and by foot to the walkways and roof structures, in order to fully understand and assess the building's current condition, before preparing and executing a full repair plan.

STRUCTURAL RENOVATIONS LTD: Tel: 01753 825511

SIX BBA CERTIFICATES FOR RONACRETE LTD

CRA member, **Ronacrete Ltd**, has recently had its six British Board of Agrément Certificates re-issued; 32 years after Ronacrete's first BBA approval.



The **Ronafix** Certificates are for **Ronafix** Concrete Render Admixture, **Ronafix** Brick Slip Adhesive Mortar Admixture, **Ronafix** Admixture for Thin Screeds and Floorings, **Ronacrete** Concrete Repair Admixture, **Ronabond** Concrete Repair Mortar and **Ronabond** Bedding Mortar.

The BBA has been awarding Agrément Certificates to material manufacturers since 1966, providing construction professionals with detailed information on the performance of new construction products and materials and the peace of mind that the product will be 'fit for purpose'.

Ronacrete, who started business just three years after the introduction of the Certificates, gained this gold standard assessing the quality and performance of its products just nine years later in 1978

"Ronacrete is very pleased to have yet again retained the certification for six key product applications. Keeping BBA certification is an ongoing process with product manufacture being regularly monitored throughout the Certificate's life. Ronacrete look upon it as part of its overall quality of service which its customers rely and depend upon. It underwrites the quality and reliability of Ronacrete products in manufacture, durability and performance."

Commented Simeon Osen, Ronacrete's Managing Director.

RONACRETE LTD: 01279 638700

USL SECURES ISO14001 CERTIFICATION



New CRA member, **Universal Sealants (UK) Ltd**, (trading as BridgeCare, StructureCare, Nufins and Visul) has added BS EN ISO 14001 certification to the company's growing list of accreditations, which also includes the BS EN ISO 9001 Quality Management Standard.

USL's overriding objective is to promote environmental protection and to avoid environmental impact in harmony with economic, social and political requirements. The Standards' implementation within USL is not a one off, nor a static process, but calls for constant adaptations and changes in the interest of a continual improvement process.

To achieve certification the company set up a dedicated environmental team, created and established an environmental management system, implemented its environmental policy, manual, procedures, reporting forms and audit plan. It also trained its staff on new procedures and how they could make a difference to the environmental impact of the company's activities.

Assessment was carried out by BM Trada, who audited the implementation of the environmental management system, environmental performance, waste management, environmental compliance and incident reporting at a number of Universal Sealants' locations, to ensure the company's environmental policies and procedures were in place and that staff were environmentally aware.

Colin Laing, USL Environmental Manager said, "I am delighted we have achieved this standard. It shows we have the right processes in place to be a responsible organisation and community partner"

UNIVERSAL SEALANTS (UK) LTD:

0191 416 1530

VOLKERLASER TRIUMPHS AT BRITISH PARKING AWARDS



CRA member, **VolkerLaser Ltd**, beat off some tough competition to become joint winners (together with Brighton and Hove City Council) of the Safer Parking Scheme Best Refurbishment Award, presented at the recent British Parking Awards.

The awards, organised by Parking Review magazine, seek to identify and reward well designed and managed parking facilities. The experience and skilled VolkerLaser team completed a major refurbishment project to transform the 347-space 'Lanes Car Park', one of Brighton & Hove City Council's key parking facilities.

The underground, pay-on-foot car park, sits in the centre of the city close to the Palace Pier, Brighton Town Hall, restaurants and theatres. For many visitors it is the city's 'front door' and shapes their first impression of Brighton & Hove.

The objectives of the refurbishment project were successfully delivered. They were to transform the car park's 'look and feel', to develop a distinctive 'brand', to create a safe and secure environment, to improve access links, to 'de-clutter' the car park, to save energy via a more efficient lighting and ventilation systems and to deliver excellent value for money.

Mike Weaver, VolkerLaser's Managing Director, was delighted with the award. "The company always strives for excellence in car park refurbishment and this award is recognition of the hard work and effort of our partnering team which, through collaborative working, has radically transformed this city centre car park from a dark, gloomy and intimidating environment, into a high quality, bright and secure parking area"

VOLKERLASER LTD Tel: 01905 742750

CURRENT CRA MEMBERS

Contractors:

Contractors:	Telephone:
AMBER CONSTRUCTION SERVICES LTD	020 8592 5699
APA CONCRETE REPAIRS LTD	01422 379640
ALFRED BAGNALL & SONS (RESTORATION) LTD	020 8311 3910
BALVAC LTD	01606 333036
CEMLAS WATERPROOFING & CONCRETE REPAIRS LTD ..	020 8654 3149
CONCRETE REPAIRS LIMITED	020 8288 4848
CONCRETE RESTORATION LTD	020 8994 8860
CSS CONSTRUCTION LTD	0845 051 5880
FREYSSINET LTD	01952 201901
GUNITE (EASTERN) LTD	01480 466880
JB SPECIALIST REFURBISHMENTS LTD	01733 233259
MACKENZIE CONSTRUCTION LTD	0141 633 5555
MAKERS CONSTRUCTION LTD	0845 899 4444
PRESTEC UK LTD	0121 308 8001
RENOCON LTD	020 7538 5492
REPEX LTD	01435 866666
RSS CONSTRUCTION PROJECTS LTD	0845 612 3293
SEALABILITY LTD	0870 405 0001
STRUCTURAL RENOVATIONS LTD	01753 825511
TOPBOND PLC GROUP	01795 414050
VOLKERLASER LTD	0844 800 4560

Manufacturers:

Manufacturers:	Telephone:
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FOSROC LTD	01827 262222
PAREX LTD	01827 711755
REMMERS (UK) LTD	0845 373 0103
RONACRETE LTD	01279 638700
SIKA LTD	01707 394444
WEBER	01525 718877

Distributors:

Distributors:	Telephone:
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SIG CONSTRUCTION ACCESSORIES	0845 863 0819

Associates:

Associates:	Telephone:
BIRMINGHAM CITY LABORATORY	0121 303 9300
THE CONCRETE CONSULTANCY 2000 LTD	01707 268034
MARTECH TECHNICAL SERVICES LTD	01487 832288
MATRIX SOLUTIONS UK LTD	01454 616170

CONCRETE SOCIETY TRAINING DAYS

An introduction to concreting materials, production and testing

The Concrete Society, London and South East Region, is running two Concrete Training Days in June, including technical presentations and practical demonstrations.

Day 1 (Thursday 9th June) will offer an entry level insight for Engineers, Students, and Technicians into the constituent materials of concrete, how each is produced, how concrete itself is produced and delivered and how it is tested in its fresh state, as well as when hardened.

Day 2 (Thursday 16th June) is designed to be a follow-on for those attending Day 1 and will delve into the subjects in more detail, as well as covering a broader spectrum of associated topics.

The days are supported by the major UK material suppliers and will involve presentations on

admixtures, aggregates, cements, concrete production, supply and testing, as well as practical demonstrations showing how concrete has its basic properties influenced by different admixtures.

Both events will take place at the University of Greenwich, Department of Civil Engineering, Central Avenue, Chatham Maritime, Chatham, Kent, ME4 4TB. Each day begins at 9am and closes at 4.45pm. A full agenda for each day will be issued upon receipt of applications. The fee for each day is £75, plus VAT, per person, which includes lunch and refreshments.

For further information contact Tony Newton
Tel: 07770 916479
E-mail: tony.newton@kerneos.com

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