



COGRI GROUP



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COGRI NEWS

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State of the Art Laser Grinder® takes residence in Australia

The newly formed company CoGri Australia Pty Ltd took delivery of their first Laser Grinder® in January 2011, one of the large fleet of Laser Grinders in operation located World-wide. Due to increasing demands for VNA operation, the Laser Grinder® will be permanently based in Australia. The region has seen a sudden rise in VNA installation recently due to higher property prices, consolidation in warehousing costs and environmental advantages.

This increasing trend gave CoGri Australia a flying start to the year with their first grinding contract awarded by a construction company. The commission was to upgrade an existing warehouse facility near Sydney.

CoGri Australia carried out whole aisle grinding to 542 metres across 14 aisles to Fmin 75 specification (comparable to Appendix C specification).

To bring the floor to tolerance and improve truck speeds & overall operation, the contractor looked at all alternative remedial options such as epoxy overlays and manual grinding. The contractor finally chose CoGri Australia because it could provide a solution that would guarantee results.

The floor was surveyed to establish where the floor was out of tolerance and then was ground to meet with specification using the Laser Grinder®. The warehouse was also fully operational and CoGri Australia worked around the client's working schedule to ensure little or no disruption to the client's operation.

The project was completed mid February.

CoGri Australia Pty Ltd provides complete concrete floor solution services to warehouse and industrial properties located in Australia and New Zealand. If you have a warehouse flooring requirement, please contact Glenn Powell on Tel: +61 1300 802 558 or email: info@cogriaustralia.com.au



From top: The Laser Grinder® on-site in Australia; Ground aisle.

Narrow Aisle Floor Grinding in France



The Laser Grinder® in operation.

Concrete Grinding Ltd worked with partner Qualidal for a construction company, on behalf of a client at their new warehouse facility in France. The project brief required 36 aisles at approximately 70 metres long to be upgraded to meet with TR34 CAT 1 specification.

After an initial floor survey by Qualidal, Concrete Grinding Ltd analysed the report and identified the areas out of specification requiring remedial grinding. This provided a substantial cost and time saving benefit to the construction company, as not all of the floor area within the 36 aisles required grinding. In addition, two Laser Grinders were in operation to speed up grinding work and meet the tight deadline.

The Concrete Grinding Ltd team carried out 3 wheel track grinding to 857 metres of aisle in total. The floor also had 180 steel construction joints and a very hard surface topping to grind through. This made the project more of a challenge. However, the Laser Grinders® are robust and designed to overcome these conditions.

Once the aisles had been ground, Qualidal re-surveyed the floor and provided a report to confirm compliance to TR34 CAT 1 specification.

CG Flooring Systems News

CG Flooring Systems have experienced a brisk start to the New Year undertaking a number of floor refurbishment projects. Of particular note has been the completion of our first project in Italy, working alongside Concrete Grinding. It involved the Technicians carrying out joint repairs ahead of the Laser Grinding operation, with the aim of leaving a clean finish across the floor joints within the ground paths. The project went very well with some very satisfactory results.

Early February has seen us embark on a large scale joint repair project at a distribution centre in Birmingham, UK. The project is programmed to run for a period of six to seven weeks, to cater not only for the volume of repairs required but also allow for the technical demands and precise detailing required to ensure the successful repair to some of the wider crack repair requirements. A full report on the project will be covered in a future edition of CoGri News.

A team of Floor Technicians will arrive in Dubai in March 2011 to carry out a variety of floor repair and coating projects, which will keep us in the region for the majority of the month.

The new conditional floor survey service which will be rolled out in 2011 is in the final planning stages and it is envisaged to hit the floors during the second quarter of the year. It is planned that this service will be launched alongside the new CoGri Group Floor Repair and Refurbishment materials. Some of the products will be new to the market, with a re-branding of some old favourites also due to take place. Our aim is to ensure we can continue to deliver a high quality professional service for our customers, using repair materials with a proven record of performance in an industrial environment. It is an exciting time for CG Flooring Systems but undoubtedly with a number of challenges ahead of us. Especially considering the current economic climate, where it appears the bottom line is more important than the quality of service provided. It is disappointing that a high quality and level of service provided by a professional contractor, is often dismissed by customers whose sole focus is "in the now". With a little more vision and an eye on the future, committing to the professional services provided by a specialist flooring contractor, can ultimately result in a saving on through life maintenance budgets.

CG Flooring Systems Ltd are looking forward to the rest of the year with our focus on delivering a quality service and installation at the forefront of our intentions.

Face Consultants Ltd

The Face Consultants team has been busy in the last quarter with projects in the UK and overseas.

The FACE team surveyed over 223,000m² of floor in the UK alone. Most of the surveying work in the UK took place in Hampshire, North Yorkshire, Lancashire, Northamptonshire, Southern England and Wales. Specifications requirements included FM1, FM2, FM2 special and DM2 as well as older Superflat and SR1. As well as surveying work, the team carried out Abrasion Resistance Testing, Relative Humidity Testing and Slip Resistance Testing at various locations.

In the South of England, Slip Resistance Testing in accordance with UKSRG guidelines and BS 7976-2 was carried out at a DC that had a new resin floor installed, tests were conducted in the main warehouse, offices and corridors.

The Relative Humidity Testing was carried out for a main contractor on a site in the midlands. The main contractor had put a stop on any floor coverings being applied to the concrete floor and screeds until the testing of the slab had been carried out and the Relative Humidity or (ERH, Equilibrium Relative Humidity) of the slab ascertained and a full report issued. Using 'The Humidity Sleeve' method FACE were commissioned to drill and insert 10 humidity sleeves on the first visit. This was followed by another visit 3 days later to ensure that moisture equilibrium conditions were reached within the sleeves, readings were then taken at each of the 10 locations using FACE's Hygrometer equipment to determine the Relative Humidity of the slab. British Standard 8203 states that cementitious subfloors should be tested, and



Relative Humidity Testing.

floor coverings not laid until readings have been obtained which indicate a RH of 75% or less. A full report was then issued to the client stating our findings.

In Belgium, FACE conducted a Profileograph survey for a client who was not too happy with the way works on their floor were progressing. FACE were able to survey the floor and confirm whether or not the spec was being met.

FACE carried out Accelerated Abrasion Resistance Testing on a project in Dubai where survey works had been completed in October then moved on to Abu Dhabi and spent around 2 weeks levelling screws for a local screeding company to give them levels to pump their base screed to.

A Profileograph survey was carried out to check compliance with the required Superflat classification in Kuala Lumpur, Malaysia. The end users of a DC were worried that the Superflat classification was not being met. A FACE surveyor was flown out to check

this and reported accordingly.

In recent months, the FACE team in the UK have also supported overseas partners and offices by completing reports for surveys carried out in Italy and Australia.

This is also an exciting time for FACE as they are venturing into new territory, India. They were asked to check that a newly laid floor was meeting the required DM2 classification. Construction was allowed to continue after the checks were verified. Once slab construction was completed, FACE returned to India for a second visit a month later to the same project to complete a Profileograph survey. With several other projects lined up in the coming months, the future for FACE in this region is encouraging. FACE hopes to build a strong brand presence and develop this market further.

CoGri Korea

After a difficult and challenging 2010, the year ended strongly for CoGri Korea with the construction of 9,000m² of concrete flooring to a multi-storey warehouse for Amore Pacific - the leading cosmetics company in Korea and a repeat client of CoGri Korea. The contract included around 7,000m² of Steel Fibre only Reinforced Slab on Piles (SOP) flooring with the upper flooring being a 75 mm Bonded Topping slab over metal decking. As requested by the owner a dark grey Dry Shake Topping was applied to the floor with the CoGri Automated Topping Spreader. Upon completion the floor was surveyed by Choi Seok Soon of Face Consultants Korea at the request of the Client and confirmed to be easily within the requirements of TR-34 FM2.



From left: Laser Scream & Topping Spreader in action; floor construction; Completed floor.

This project was the third Steel Fibre only Reinforced SOP floor constructed by CoGri in Korea and with hard work from the whole Korean project team ably assisted by staff from CoGri Asia Pacific in Singapore, resulted in yet another happy repeat customer. Following completion of the floor a site visit was arranged to take representatives of Korea's leading retailing company to see the floor quality that CoGri Korea can offer. The client expressed amazement at the floor and in particular the lack of any delamination, cracking and saw cut joints.

2011 also started strongly for CoGri in Korea with the construction of two cold and freezer warehouse floors currently ongoing, and a particularly hectic period of sales activities. We are expecting 2011 to be a strong year for CoGri Korea, with 2012 being even stronger, which should further 'cement' the reputation of CoGri Korea as the market leader for Quality Concrete Flooring.

A Great 2011 Start for CoGri Asia

A global company is investing in Thailand where their flagship store will be part of the new Mega Bangna lifestyle complex located on the outskirts of Bangkok.

Based on a review of concrete car park surfaces being constructed the client's project manager wanted another option for the construction of the store floors. Looking for advice the client contacted CoGri Group's partner Ignacio at Eurostick in Spain. Ignacio introduced the client to CoGri Asia. Several meetings later convinced of CoGri's ability, the client recommended to their main contractor that CoGri should be appointed for the store and warehouse flooring works. CoGri Asia mobilised to site in early January 2011.

The flooring contract includes 28,000m² of 75 and 100mm bonded topping with an extra 8000m² likely to be added to the contract. Slabs are reinforced with a layer of mesh, two layers of reinforcing steel and 25 kg / m³ of .75 x 50 fibre. Concrete had to be delivered by pipeline up to 150 meters long.

Casting started on 26th January with a 550m² bay. A small gap in the fine aggregate grading proved to be a bigger obstacle than anticipated. 7m³ into the pour, 100m long pipeline blew out throwing concrete 15m into the air. The site team quickly broke, cleaned and reassembled the pipeline. The QA team working with the concrete supplier quickly adjusted the mix design and casting resumed in less than an hour.

Unfortunately, the first day hiccups were not over. The gap grading in the fines and a weak pump resulted in 13 hours of placing and a 26 plus hour shift. The client and main contractor toured the site at 08:30 on the 27th and were surprised to see a tired CoGri team on site but gave positive feedback on the completed work.

Saturday casting resumed with further revisions to the mix design. We have a long way to go on this job but would like to thank our site team for their continued efforts; Lawrence Yong, Tiuw Chee How, Phongphat Thiwakorn, Chai Foo Hoe, Kevin Tok, John Galvin, Phillip Mulhall.



Images from top left: Site in Thailand; checking the concrete mix; pour sequence; precast concrete slabs.

Middle East Seminars

With both CoGri Middle East LLC and FACE Middle East Fzc teams currently working on various floor repairs and floor surveys in the UAE and potential floor design and on-site supervision works due in the coming months, the first week in March became even busier with the start of a series of presentations on Industrial Warehouse Floors.

The seminars took place in response to a number of requests received from MHE dealers, racking suppliers and engineers in the region. FACE Middle East arranged a series of seminars, each tailored with topics to suit each audience. Delegates present included Genavco, Crown, Famco, Linde / Dexion, Jungheinrich, SPAN & SPAN Racking and Trakhees Civil Engineering.

The seminars were presented by Managing Director Kevin Dare of FACE Middle East Fzc.

Subjects covered included: -



- Performance based floor design specifications.
- Flatness / levelness meanings and measurement.
- Abrasion Resistance.
- Joint detailing.
- Construction methods, concrete / application / finishing.
- Tips on identifying warehouse floor problems.
- Laser Grinding.
- Floor repairs.

Feedback received by the delegates was excellent.

We would like to thank all the delegates for attending the various presentations and hope that this might assist them in their roles and to better appreciate the important relationship between a floor & the performance of MHE and Racking.

If you are interested in attending future Industrial Warehouse Floors Seminars, please contact Malcolm Godbold of FACE Middle East Fzc on Tel: +971 50 6524102 or email info@facemiddleeast.com

New appointments

The CoGri Group welcomes Matthew Smith and Tom Sykes to the team.

Matthew joined Face Consultants in November 2010 as their new Surveyor.

Matthew previously worked as a Structures Technician for a company based in Warrington, covering the North West region. He has also worked for another company for two years, dealing with bridges and motorways maintenance including inspection, reporting, new scheme data input and checking for terrorists threats. Prior to that Matthew was a Trainee CAD Technician for a Civil Engineering Consultancy based in Manchester City Centre.

Tom joins CG Flooring Systems as their Junior Technician in February.

Tom previously worked for a local printing firm in Shelley, Huddersfield for a year. Prior to that, Tom was studying for a BTEC National Diploma in Construction at Shelley College for 3 years.

Both Matthew and Tom are looking forward to their roles and travelling overseas.



From left: Matthew and Tom.

Face Consultants Korea

Towards the end of 2010, Face Consultants (Korea) Ltd was commissioned to carry out FM2 Survey and Abrasion Resistance (AR1) Testing for one of the biggest cosmetic company in Korea, Amore Pacific. The client are in the process of building a huge main factory and distribution centre which will have a total floor area of approximately 100,000m². Within this facility, around 32,000m² in the main warehouse, utility and waste will require surveying and AR1 testing.

FACE Korea had a meeting with the client before construction and explained to the client why it was important for the floor to be specified before construction and why compliance testing was crucial to building a good quality floor.

The client, after taking on board advice from FACE Korea, agreed the flatness specification. The client also indicated FACE Korea as the compliance testing company in their construction specification sheet.

With 80% of the building work completed, FACE Korea tested 30% of the area for compliance. However the floor quality was not sufficient therefore FACE Korea could not pass the whole of floor for compliance to FM2 and AR1. FACE Korea advised the client and the flooring contractor on-site on the survey methods

and survey results. Because the client understood the importance of compliance testing and they were happy with FACE Korea, they extended the contract to include AR testing to the main factory floor.

This just goes to show the effect that Face Consultants has had on the Industrial Flooring Industry in Korea during the last 5 years, with owners now demanding better quality floors.

The project includes the main warehouse which consists of Slab On Grade (SOG) slab and Reinforced Concrete slab; Suspended Slab in the utility facility and Reinforced Concrete slab in the waste warehouse. Up to now, only FM2 survey has been completed in SOG area in main warehouse.

FACE Korea will start the 2nd phase of FM2 Survey and AR testing in March.



Choi Seok Soon of FACE Korea surveying floor.

Site Visit in Singapore

CoGri Asia started the year with building the first Steel Fibre Reinforced only Slab on Piles floor (SR-SOP) in Singapore. CoGri Asia took this opportunity to invite professionals from building, construction and the logistics sectors to visit on-site on 7th and 8th February. As this construction method is new to Singapore, the visit marked a significant milestone for CoGri Asia.

The purpose of this site visit was to introduce CoGri's SR-SOP construction method to the industry and highlight the numerous benefits of this process. Visitors' response was tremendously encouraging despite the Chinese New Year celebration just round the corner.

During the site visit, Project Manager Rob Walker talked about the construction philosophy behind SR-SOP. Topics covered included: -

- How construction times have been minimised.
- Reduction on man hours made possible.
- The overall reduction in material cost.
- Lowering long-term maintenance cost on floor slabs.
- High quality superflat floors compliance testing.
- Joint systems used.

Using hi-tech equipment and machineries enabled CoGri Asia to construct high quality floors with great speed and precision. It was also the first time in Singapore that CoGri Asia used a Laser Screed during construction. The Laser Screed has an automatic laser control system which provided an accurate level finish through the use of its electro-hydraulic controls.

"The site visit was a good way of exchanging knowledge and indeed an eye opener for our visitors. Many may have only heard of such construction method but have not seen one. With this site visit, not only were the visitors able to understand such technique on paper but also allowed them to witness and experience the benefits that can be achieved by using this method. Of course, visitors were also able to see the professionalism and expertise our staff had in handling every set of equipment whilst delivering high quality concrete floors.", said Benjamin Cheng, Marketing Executive at CoGri Asia.

Senior Principal Engineer (Civil & Structural Engineering & Infra Dept Engineering Planning Division) at one of the biggest industrial estate developer in Singapore commented, "Impressive Technology. It is a new system worth exploring to improve construction productivity."



Images from top left: Armoured joints; Laser Screed; Rob Walker talking to visitors; finishing.

CG Flooring Joins CHAS

January saw CG Flooring successfully joining the Contractors Health and Safety Assessment Scheme (CHAS). CHAS assesses health and safety policy statements, organisation's health and safety; specific health and safety arrangements to a standard acceptable to potential buyers and to others.

Each month thousands of contractors and consultants (suppliers) apply for work with public and private sector organisations (buyers). To win work, they must meet the buyer's health and safety standards. Nationally there are more than 400 public and

private sector buyer organisations, such as councils, housing associations, NHS trusts, including a growing number of large private companies who employ sub-contractors.

CG Flooring hopes that by joining CHAS, this will verify their compliance with important parts of health and safety law (The Health and Safety at Work Act, CDM regulations etc) and to open up opportunities in new markets where CHAS compliance is prerequisite.

CHAS works closely with Constructionline which is the Government's national register for suppliers. CG Flooring Systems is also a member of Constructionline.