# Radcrete Pacific presents: Commercial Buildings

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#### SITE DETAILS:

COUNTRY - Singapore SITE - One Leicester

TREATED AREA - Podium deck, landscaped areas and swimming pool

# New luxurious condominium in Singapore opts for RADCON Formula #7 protection.

One Leicester is an 18 storey, ultra modern complex of exclusive apartments recently opened in Singapore.

It offers its residents 194 stylish urban design units surrounded by an elegant glass facade and stunning views of the surrounding area.

RADCON Formula #7 has been applied to the podium deck, protecting the entrance drop off section and the adjoining water feature.

Radcrete's Singaporean applicators had all the 'aces' in their hands when meeting with the One Leicester specifiers.

RADCON #7 had been widely used on condominium complexes throughout Asia including Singapore.

It is also specifically designed for long term protection of exposed trafficable areas by re-sealing any future hairline cracks. Potability and unlimited hydrostatic pressure characteristics proved to be beneficial for protection of the water feature.

Some other features at One Leicester include tennis courts, landscaped rooftop garden, outdoor pool, tai chi corner, multiple gardens and fitness centres.



### Radcrete Pacific presents: Trafficable Areas





#### SITE DETAILS:

**COUNTRY** 

- Johannesburg, South Africa

SITE

- Nelson Mandela Bridge

TREATED AREA - Bridge deck

**APPLICATOR** 

- Verni Construction

#### FIGURE 1.

A view of the Nelson Mandela Bridge in Johannesburg, South Africa.

## RADCON Formula #7 protects the Nelson Mandela bridge in Johannesburg

The **Nelson Mandela Bridge**, a centre piece of the Blue IQ rejuvenation project in South Africa, quickly became the newest landmark of the Gauteng province.

Verni Construction, the long-term and experienced Radcon Formula #7 distributor for the region, treated the bridge deck ensuring lifetime waterproofing and increased serviceability to this spectacular structure.

Pollution is a serious concern in the city, resulting in rapid carbonation and deterioration of structural concrete. With Radcon #7 protection, the bridge will be in use for many years with no further maintenance required.

Being the largest cable-stayed bridge in southern Africa, it is 284 metres long, spanning over 42 operational railway lines in the heart of the Johannesburg's central business district.

The asymmetrical dual-pylon design, with a 42 meter tall north pylon and 27 meter tall south pylon, received an outstanding engineering achievement award from the South African Institute of Civil Engineers (SAICE) on 27 October 2004.







### Radcrete Pacific presents: Trafficable Areas





#### SITE DETAILS:

**COUNTRY** 

- Kuwait

SITE

- Mina Al Ahmadi Refinery

CLIENT

- Kuwait National Petroleum

Company

TREATED AREA - Wharf deck

APPLICATOR

- Hyundai Engineering

SIZE

- 7,500 sa mtrs

#### FIGURE 1.

The new oil pier at the Mina Al-Ahmadi Refinery in Kuwait.

### Hyundai Engineering utilise RADCON #7 on a new oil pier in Kuwait.

As a part of the Mina Al-Ahmadi Refinery upgrade, the Kuwait National Petroleum Company is adding a new oil pier to its extensive production line.

Hyundai Engineering presented the lowest bid of \$326.5 million in a tender for the construction of the new facility and won the contract on 27 September 2000.

It is replacing the south piers and is about 2 km long with up to six births to handle a variety of products including gasoil/diesel, naphtha, kerosine, butane and propane.

Hyundai Engineering were familiar with RADCON #7 characteristics after successful applications in the past and confident in the product's ability to provide a watertight barrier preventing any water, salt or chemical ingress.

They treated an area of 7,500 sq meters of concrete wharfs, providing lifetime protection of the concrete pier and significantly prolonging the service life of the structure.

RADCON #7 has been protecting wharf decks and marine sea walls around the globe for the past 20 years without a single failure to date.

Additional advantages for this particular application were ease of application, no possible mechanical damage and resistance to the UV rays.

The new MAA refinery is scheduled for completion in 2010 with an increase in production up to 615,000 bpd.



# Radcrete Pacific presents: Trafficable Areas





#### SITE DETAILS:

COUNTRY - Vietnam

SITE - Super Highway

TREATED AREA - Raised highway

APPLICATOR

- Indochina Centepro

SIZE

- 450,000 sq meters

FIGURE 1. Part of the raised Super Highway in Vietnam

### Vietnam raised super highway protected with RADCON #7.

RADCON Formula # 7 is a well known product to the Vietnamese road authorities.

It is actually their preferred waterproofing solution for bridge deck protection and so far has been used on 200+ bridges through out the region.

The latest project currently under way is a 58 km long Super Highway connecting Ho Chi Minh City with the Long An and Tien Giang provinces.

In order to preserve rice plantations in the surrounding areas, 25 km is raised above the ground level.

It is the first project of this kind in Vietman - addressing the ever growing transportation problems in the country.

Indochina Centepro have commenced waterproofing works of 720 meters long raised section in June 2008.

We will keep you updated on the progress of this project.



Part of the Super Highway currently under construction

### Radcrete Pacific presents: Trafficable Areas





#### SITE DETAILS:

COUNTRY - Jeddah, Saudi Arabia

SITE - The Royal Terminal

CLIENT - Saudi Bin Laden Group TREATED AREA - Podium deck

APPLICATOR - Isam Kabbani Group

SIZE - 8,000 sq meters

#### FIGURE 1.

The Royal Terminal entrance and fountain waterproofed with RADCON Formula #7.

# RADCON Formula #7 for the Royal Terminal at the King Abdulaziz International Airport.

King Abdulaziz himself opened the newly renovated Royal Terminal at Jeddah International Airport on 29 December 2007 in Saudi Arabia.

The project upgrade included a platform for official receptions covering an area of 8,500 square meters, of which 3,500 square meters were solely allocated for royal receptions.

A huge conference hall with advanced facilities was also erected during the construction works which were carried out by the Saudi Bin Laden Group.

The contractors were seeking a reliable waterproofing solution for the raised exposed areas, subjected to extreme thermal stress conditions.

RADCON #7 was specified due to its superior protection from pollutants and chloride ingress, which cause a rapid concrete deterioration and steel reinforcement corrosion.

Isam Kabbani treated the raised deck for the airside concourse and the entrance podium deck at the Royal terminal - an area spanning some 8,000 squared meters.



**FIGURE 2.** Final stages of the Royal Terminal renovation.

# Radcrete Pacific presents: Trafficable Areas





# First stage of Thu Thiem Bridge waterproofing completed with RADCON #7 protection.

The Thu Thiem Bridge is a long awaited connection between the Ho Chi Minh City centre and a new urban area at the Thu Theim peninsula.

Our Vietnamese representatives from Indochina Centepro have recently completed the first stage of waterproofing the bridge deck area of 19,000 sq meters.

The second stage, an additional 4,000 sq meters, is scheduled for the beginning of 2009.

Thu Thiem Bridge is a new six lane bridge spanning across the Saigon River.

The developer, *People's Comittee of Ho Chi Minh City - So Giao thong Cong chanh Thanh pho Ho Chi Minh - Khu Quan Ly Giao thong Do thi so 1*, recommends the use of RADCON Formula #7 on their projects as a guarantee of quality waterproofing and longer life span of the structure.

Mr Thai Thanh Cao, the director of Indochina Centepro, has invested a lot of time in convincing the authorities about RADCON #7's unique characteristics in the past.

#### SITE DETAILS:

COUNTRY - Vietnam

SITE - Thu Thiem Bridge

DEVELOPER - People's Committee HCMC

TREATED AREA - Bridge deck

APPLICATOR - Indochina Centepro SIZE - 23,000 sq meters

Today he is one of Radcrete's greatest success stories in South East Asia.

RADCON Formula #7 is a cost effective waterproofing solution for bridge deck protection as it does not require protective structural topping or any future maintenance.

It provides superior protection to trafficable areas due to its capability to re-seal future hairline cracks upon contact with water.

Further it significantly improves surface durability by hardening concrete to the equivalent of granite.

# TESTIMONIAL -

### RADCON Formula #7's proven performance





#### SITE DETAILS:

COUNTRY - Australia LOCATION - Queensland

TREATED AREA - Inside of Tailings thickener

tank

APPLICATOR

- Concrete Cutting & Sealing

SIZE

- 3, 000 sq mtrs

COMPLETED - 1997

The above pictured tailing thickener tank has been treated with Radcon #7 over 10 years ago.

Located at the Curragh mine in central Queensland, it is used for separating coal dust from water, which is retained for recycling and further coal treatment.

The mine began operations in 1983 and its open cut reserves allow production levels to be increased and maintained beyond 2016.

Radcrete's Danielle Blackmore caught up with the contractors in charge of the maintenance works to check on Radcon's performance:

----Original Message-----

From: Jeff Fox

Sent: Wednesday, 16 August 2006 8:15 AM

To: Danielle Blackmore

Subject: Re: Radcon Formula #7 - concrete waterproofing and

protection

Thanks Danielle.

The tailings thickener in the newsletter was done after the Riverside one I

was talking about. I am sure the Riverside one was first because I asked

John Shepherd to apply it.

Anyhow, it's great to see it is still doing the job. If I get the opportunity to be there at the next shutdown I will try to get some photos.

Regards,

Jeff

Jeff Fox



### Radcrete Pacific presents: Water Holding Vessels

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# **RADCON #7 protection for the biggest** water park in the Middle East.

The Bahrain City Centre, scheduled for completion in mid 2008, is without a doubt the largest retail development in the country.

Covering an area of 450,000 sq meters, it will be the first integrated entertainment, shopping and leisure resort in Bahrain featuring the biggest indoor and outdoor water park in the Middle Fast.

This mega mall will also be connected to two hotels with a total of 460 rooms. The success of this City Centre brand is within the reach of the Majid Al Futtaim Investments, with 200 stores out of 330 already leased out to world's leading retailers.

The list of contractors collaborating on this project is equally impressive (see to Figure 2).

RADCON Formula #7 has been specified by Shankland Cox to protect and waterproof the state-of-the-art water park being built on top of the massive seven story car park with capacity for 5,500 vehicles.

The water park covering an area of approximately 12,400 sq. meters will be accessible directly from the mall, providing a temperature controlled aquatic facility to visitors all year round.

Wadi Rum Decor, now working on this project for 18 months, have commenced application.

We will keep you updated on the progress of this high profile project.

#### FIGURE 1.

Bahrain City Centre under construction.

#### SITE DETAILS:

COUNTRY CLIENT

- Bahrain

SITE

- City Centre - Mujid Al Futtaim (MAF)

ENGINEER

- Mott Macdonald

CONSULTANT

- Shankland Cox

ARCHITECT

- Woods Bagot

PROJECT MANAGER - Mace International

TREATED AREA

- Water Park



FIGURE 2.

Shot of the signboard in front of the Bahrain City Centre.

# Radcrete Pacific presents: Water Holding Vessels





#### SITE DETAILS:

COUNTRY - Jeddah, Saudi Arabia SITE - Al Corniche Hotel TREATED AREA - Swimming pool APPLICATOR - Isam Kabbani Group

#### FIGURE 1.

The Al Corniche Hotel Jeddah, Saudi Arabia.

## Rooftop pool protected by RADCON Formula #7 technology.

The newly erected Al Corniche Hotel in Jeddah solved once and for all any potential waterproofing issues in the final stages of the construction.

The hotel is at the centre of the Corniche, a popular waterfront area said to be one of the most spectacular places in Saudi Arabia. It features over 400 open air sculptures and the gigantic King's Fountain, situated opposite the Al-Salam Palace.

It has an open air rooftop pool, which is exposed to extreme weather conditions. Any leakage present could cause serious water damage to the floors below and even disrupt the hotel's operations.

Isam Kabbani, Radcrete's Saudi representatives, had the perfect and inexpensive solution for this situation – RADCON Formula #7.

The specifiers were doubting this 'miracle' product at first but after realising RADCON #7 was the only solution claiming to fix any leaking cracks present as well as any future hairline cracking without re-applying the product, they gave Isam Kabbani the green light.

RADCON #7 was spray-applied to the rooftop pool concrete surfaces and as confirmed by a successful pond test, will be protecting and waterproofing the concrete for the life of the structure.

The product has been available in Saudi Arabia for several years and is building a solid reputation being used on landmark projects such as the Al Corniche, Jeddah Shopping Center and the Royal Terminal at the Jeddah International Airport.

# Radcrete Pacific presents: Water Holding Vessels





FIGURE 1. Crystal Beach Resort, Saudi Arabia

#### SITE DETAILS:

**COUNTRY** 

- Saudi Arabia

SITE

- Crystal Beach Resort

TREATED AREA - Swimming pool

APPLICATOR

- Isam Kabbani Group

### RADCON Formula #7 technology for pool protection.

Crystal Beach Resort is yet another privately own establishment recently opened in North Obhur, Saudi Arabia.

Situated on the shores of the Red Sea, it is a popular spot for divers and water enthusiasts offering rich marine life and unspoiled diving spots.

This exclusive recreational complex offers amongst other facilities a pool area which was in need of a reliable and permanent waterproofing solution.

Isam Kabbani, Radcrete's Saudi representatives, quoted RADCON Formula #7 and succeeded in wining this project over other available waterproofing products mainly due to RADCON's unique re-sealing characteristics.

It is particularly suitable for water holding vessels applications not only because of its potablility certification but it also can withstand unlimited hydrostatic pressure.



# Radcrete Pacific presents: Commercial Buildings

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### SITE DETAILS:

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION - Trinidad and Tobago

- Ansa Building - Head Office of Digicell Communications

- Hafeez Karamath Contractors

- Dover Waterproofing Technologies Ltd

- Entire rooftop slab was treated with RADCON Formula #7

## Radcrete Pacific presents: Trafficable Areas

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# **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR

**APPLICATOR** 

**DESCRIPTION** 

- Trinidad and Tobago

- BHP Bhilliton Head Office

- Beaver Construction

- Dover Waterproofing Technologies Ltd

- 4 level car park waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION

- Trinidad and Tobago
- Coblentz Apartment
- Kee Chanona Ltd
- Dover Waterproofing Technologies Ltd
- RADCON Formula #7 treatment for foundation, rooftop, water tank and swimming pool

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION

- Trinidad and Tobago
- Sweet Briar Place Office Building
- Beaver Construction
- Dover Waterproofing Technologies Ltd
- RADCON Formula #7 treatment for underground water tank, car park, kiosk and planters

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION - Trinidad and Tobago

- Port of Spain Magistrates Court

- Heron Lewis Construction

- Dover Waterproofing Technologies Ltd

- Rooftop waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT APPLICATOR DESCRIPTION - Trinidad and Tobago

- Pereira Building Port of Spain

- Dover Waterproofing Technologies Ltd

- Rooftop waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION - Trinidad and Tobago

- New Silo and Mill for National Flour Mills

- Buhler / Ibberson

- Dover Waterproofing Technologies Ltd

- Rooftops waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### SITE DETAILS:

COUNTRY PROJECT APPLICATOR - Trinidad and Tobago

- Datta Yoga Historical Hindu Temple

- Dover Waterproofing Technologies Ltd

DESCRIPTION - Temple Rooftop waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT CONTRACTOR APPLICATOR DESCRIPTION

- Trinidad and Tobago
- The Industrial Court of Trinidad & Tobago
- Hafeez Karamath Construction
- Dover Waterproofing Technologies Ltd
- Rooftop waterproofed with RADCON Formula #7

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### **SITE DETAILS:**

**COUNTRY** 

- Trinidad and Tobago

**PROJECT** 

- Laventille Technology & Education Centre

**CONTRACTOR** - NH International

**APPLICATOR** 

- Dover Waterproofing Technologies Ltd

DESCRIPTION - Walls and pillars waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT - Trinidad and Tobago

APPLICATOR

- Ministry of National Security - E 999

DESCRIPTION

- Dover Waterproofing Technologies Ltd

- Foundation and Roof top waterproofed with RADCON Formula #7

### Radcrete Pacific presents: Trafficable Areas

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This marina was waterproofed with one of our competitor's products which failed after 3 years resulting in chloride ion attack. Dover was asked to repair the both top and underside of the marina. The slabs ware sandblasted to remove any previous products, barnacles, etc. All areas were then washed with fresh water and treated with RADCON Formula #7, providing watertight seal and steel reinforcement protection to date.

### **SITE DETAILS:**

COUNTRY PROJECT APPLICATOR - Trinidad and Tobago

- Peake Marine Ltd

- Dover Waterproofing Technologies Ltd

DESCRIPTION - Wharf areas

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY

- Trinidad and Tobago

PROJECT APPLICATOR Melville Shipping Company Head OfficeDover Waterproofing Technologies Ltd

**DESCRIPTION** 

- Roof top waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY

- Trinidad and Tobago

PROJECT

- The Prime Minister's Office

CONTRACTOR

- Ministry of Works

APPLICATOR

- Dover Waterproofing Technologies Ltd

**DESCRIPTION** 

- All extensions including car park treated with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY - Trinidad and Tobago PROJECT - Tobago Sea Wall

CONTRACTOR - Tobago House of Assembly

APPLICATOR - Dover Waterproofing Technologies Ltd
DESCRIPTION - Waterproofed with RADCON Formula #7

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### **SITE DETAILS:**

COUNTRY - Trinidad and Tobago PROJECT - Mariott Courtyard Ho

- Mariott Courtyard Hotel
ACTOR - Beaver Construction

CONTRACTOR - Bea APPLICATOR - Dov

- Dover Waterproofing Technologies Ltd

DESCRIPTION - All concrete roof sections waterproofed with RADCON Formula #7

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### **SITE DETAILS:**

COUNTRY - Trinidad and Tobago

PROJECT - Nicholas Tower

APPLICATOR - Dover Waterproofing Technologies Ltd

DESCRIPTION - Underground water tank treated with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY PROJECT - Trinidad and Tobago

- Princess Court Guardian Holdings Head Office

APPLICATOR

- Dover Waterproofing Technologies Ltd

DESCRIPTION - Car park waterproofed with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY

- Trinidad and Tobago

PROJECT

- Trinidad & Tobago Electricity Commission Head Office

CONTRACTOR

- R. K. Plummer

APPLICATOR

- Dover Waterproofing Technologies Ltd

**DESCRIPTION** 

- Balconies, rooftops and kiosk waterproofed with

RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY - Trinidad and Tobago PROJECT - Tecu Credit Union

APPLICATOR - Dover Waterproofing Technologies Ltd

DESCRIPTION - Rooftop waterproofed with RADCON Formula #7

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### **SITE DETAILS:**

COUNTRY PROJECT - Trinidad and Tobago

- University of the West Indies Administration Centre

CONTRACTOR

- Beaver construction

APPLICATOR

- Dover Waterproofing Technologies Ltd

DESCRIPTION - Balconies and external walkways waterproofed

with RADCON Formula #7

# Radcrete Pacific presents: Commercial Buildings

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### **SITE DETAILS:**

COUNTRY - Trinidad and Tobago PROJECT - Waterloo High School

CONTRACTOR - Moosai Development Construction Ltd APPLICATOR - Dover Waterproofing Technologies Ltd

DESCRIPTION - Rooftop waterproofed with RADCON Formula #7

# RECENT ACTIVITIES OF INTEREST 2008

### **Trade Show Action - Brazil**





# **FIGURE 1.**Mr Luiz Hollanda Sr presenting RADCON #7 technology at the Rio de Janeiro Waterproofing

#### RADCON Formula # 7 Technical Seminar in Rio de Janeiro

Radcon Brazil have recently launched a series of specified technical seminars for industry professionals around the country.

The first took place in Rio de Janeiro where Mr. Hollanda, Radcon Brazil's CEO, presented RADCON #7 unique concrete waterproofing and protection technology to 25 specifiers, engineers and architects from the Rio de Janeiro Waterproofing Association.

The lecture took place at Association headquarters and lasted approximately 2 hours, including Q&A.

Radcon Brazil have been Radcrete's exclusive distributor in the region for about a decade.

They have an extensive network of specialised subdistributors throughout the country.

Some of their numerous RADCON #7 site references include the Ibere Camargo Museum and Suzano Paper Mill.

Radcon Brazil will be organising further technical seminars in different regions, with the next one taking place in Goias, a northern state of Brazil.

# FIGURE 2.

Association.

Engineers, specifiers and architects present at the first Technical Seminar in Rio de Janeiro



# RECENT ACTIVITIES OF INTEREST 2008

# **Trade Show Action - Italy**





FIGURE 1.

Architectural visualisation of the Radcon Italia booth at the show.

### **SAIE Bologna International Building Exhibition**

RADCON Formula #7 was presented at the SAIE Bologna – International Building Exhibition for building professionals held on 24 – 28 October 2007.

Participation at this highly specialised show offerred an opportunity to introduce new as well as established products to a vast number of participants from the construction industry.

The event covered 160,000 square meters of display space with 18 halls, 2 outdoor areas and hosted products of 1,420 companies.

Our colleagues from Radcon Italia presented their visitors not only with RADCON #7 technology but also demonstrated its performance characteristics and suitability for application sites.

One of the novelties introduced this year at SAIE was a tool for professionals called the New product guide which featured the most innovative products on display at the exhibition.

This publication has been developed in cooperation with a team of experts from ArTech at the Architecture Faculty of the IUAV University of Venice and proved to be an important communication tool for the world of the media and construction industry professionals.

Radcon Italia were very happy with the response from the visitors and delivered a very stylish presentation of Radcrete products.