

Project List - Spray Concrete

Bekaert • Maccaferri Underground Solutions



Year	Project	Tunnel Type	Country	ØExt (I)	Fibre Type	Spray Method	Lining	Client
2017	Mina Altos de Punitaqui	Mining	Chile		Dramix® 3D 6535BG	Wet		Altos de Punitaqui
2016	Mina El Salvador	Mining	Chile		Dramix® 3D 6535BG	Wet		CODELCO
2016	Moglice HEPP	Hydro	Albania	6,00	Dramix® 3D 6535BG	Wet	Permanent	
2016	Redlake Mine	Mining	Canada		Dramix® 3D 6535BG			
2016	Riedberg Tunnel	Road	Switzerland		Dramix® 3D 6535BG	Wet	Temporary	ARGE Tunnel Riedberg
2016	HUG Tunnel - CEVA Project Lot 1	Rail	Switzerland		Synmix® 55	Wet	Temporary	ATH – Association Tunnel HUG
2016	Albula Tunnel II	Rail	Switzerland		Dramix® 4D 6535BG	Wet	Temporary	ARGE NAT II
2016	Stalvedro Tunnel - A2	Road	Switzerland		Dramix® 3D 4535BL	Wet	Temporary	Consorzio 201 Quinto
2016	Val Pischöt Tunnel	Road	Switzerland		Dramix® 3D 6535BG	Wet	Temporary	Rusena Betun SA
2016	Sasslatsch Tunnel	Rail	Switzerland		Dramix® 4D 6535BG	Wet	Temporary	Sosa Gera SA
2016	Miguillas	Hydro	Bolivia		Dramix® 3D 6535BG			JOSE CARTELLONE C.C.S.A.
2016	Incahuasi	Road	Bolivia		Dramix® 3D 4535BL			CORSÁN CORVIAM CONSTRUCCIÓN S.A
2015	Shuakhevi HEPP	Hydro	Georgia	7,00	Dramix® 3D 6535BG	Wet	Permanent	
2015	Efemcukuru Mine	Mining	Turkey	5,00	Dramix® 3D 6535BG	Wet	Temporary	
2015	Sabuncubeli	Road	Turkey	12,00	Dramix® 3D 6535BG	Wet	Temporary	
2015	Peak Gold Mine	Mining	Australia		Synmix® 55			
2015	Mount Isa	Mining	Australia		Synmix® 65			
2015	Visnove Tunnel	Road	Slovakia		Dramix® 3D 6535BG	Wet	Temporary	SALINI IMPREGILLO S.p.A.
2015	Chübalm Tunnel - A8	Road	Switzerland		Dramix® 3D 6535BG	Wet	Temporary	Aarekies Brienz AG
2015	Joint Power Plant Inn (GKI)	Hydro	Austria		Synmix® 55	Wet	Temporary	HOCHTIEF Infrastructure GmbH
2015	Silvapiana Bypass Tunnel	Road	Switzerland		Dramix® 3D 6535BG	Wet	Temporary	Montebello AG
2014	Urae Fanit Dam and Fagnut HEPP	Hydro	Albania	7,00	Dramix® 3D 6535BG	Wet	Permanent	
2014	Kargı HEPP	Hydro	Turkey	6,00	Dramix® 3D 6535BG	Wet	Permanent	
2014	Kargı HEPP	Hydro	Turkey	10,00	Dramix® 3D 6535BG	Wet	Permanent	
2014	Champel Tunnel - CEVA Project Lot 25.11	Rail	Switzerland	9	Dramix® 3D 6535BG	Wet	Temporary	Marti Holding AG
2014	Ceneri Base Tunnel	Rail	Switzerland	9	Dramix® 3D 6535BG	Wet	Temporary	Consorzio Condotte Cossi
2014	Visp Tunnel - A9 Visp South Bypass	Road	Switzerland	12	Dramix® 3D 4535BL	Wet	Temporary	Ulrich Imboden AG
2014	Choindez Tunnel - A16	Road	Switzerland	12	Dramix® 3D 4535BL	Wet	Temporary	Association Tunnel de Choindez
2014	Nante de Drance Power Plant	Hydro	Switzerland	cavern	Dramix® 3D 6535BG	Wet	Temporary	Groupement Marti Implenja
2014	Tunnel de Court - A16	Road	Switzerland	12	Dramix® 3D 6535BG	Wet	Temporary	Association Tunnel de Court
2014	Tunnel Buechiwald	Rail	Switzerland	6	Dramix® 3D 6535BG	Wet	Temporary	Frutiger AG
2014	Refurbishment Crocetto and Giustizia Tunnel	Rail	Switzerland	9	Dramix® 3D 4535BL	Wet	Temporary	ARGE CGT
2013	Xe-Pian Xe-Namnoy	Hydro	Laos		Dramix® 3D			
2013	Paravani HEPP	Hydro	Georgia	5,00	Dramix® 3D	Wet	Temporary	
2013	Alpaslan Dam +HEPP	Hydro	Turkey	9,00	Dramix® 3D	Wet	Temporary	
2013	Kure Cupper Mine	Mining	Turkey	5,00	Dramix® 3D	Wet	Permanent	
2013	Melet HEPP	Hydro	Turkey	7,00	Dramix® 3D	Wet	Temporary	
2013	Rosshäusern Tunnel	Rail	Switzerland		Dramix® 3D	Wet	Temporary	ARGE MBR Rosshäusern
2013	Pinchat Tunnel - CEVA Project 23.12	Rail	Switzerland		Dramix® 3D	Wet	Temporary	CTP - Consortium Tunnel de Pinchat
2013	Gotthard Base Tunnel	Rail	Switzerland		Dramix®	Wet	Temporary	ARGE Transco Sedrun
2013	Küblis Bypass Tunnel - A28	Road	Switzerland		Dramix®	Wet	Temporary	Strabag AG
2013	San Fedele Tunnel - A13 Roveredo Bypass	Road	Switzerland		Dramix®	Wet	Temporary	ARGE CGR
2013	Limmern Water Tunnel	Hydro	Switzerland		Dramix®	Wet	Temporary	Rothplez + Lienhard
2013	Enhancement Handeck II Power Plant	Hydro	Switzerland		Dramix® 3D	Wet	Temporary	Gasser Felstechnik AG
2012	Adacami HEPP	Hydro	Turkey	5,00	Dramix® 3D	Wet	Permanent	
2012	Arkun HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2012	Cambasi HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Permanent	
2012	DDY Eskisehir	Rail	Turkey	14,00	Dramix® 3D	Wet	Temporary	
2012	DDY Eskisehir	Rail	Turkey	11,00	Dramix® 3D	Wet	Temporary	
2012	Kavsakbendi Dam	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2012	Yamanlı HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2012	Emisor Oriente - Shaft Lining	Sewage	Mexico	20,00	Dramix® 3D		Permanent	
2012	Oktjabrskij Mine	Mining	Russia		Dramix® 3D	Wet	Temporary	Thyssen Schachtbau GmbH
2012	Enhancement Innertkirchen 1 Power Plant	Hydro	Switzerland		Dramix® 3D	Wet	Temporary	Ghelma AG SKISAB
2012	Nante de Drance - Pumped Storage Power Plant	Hydro	Switzerland		Dramix®	Wet	Temporary	GMI Groupement Marti Implenja
2012	Loveresse Tunnel - A16	Road	Switzerland		Dramix® 3D	Wet	Temporary	Association Tunnel de Loveresse
2012	Geschiebeumleitungsstollen Solis	Hydro	Switzerland		Dramix® 3D	Wet	Temporary	Rothplez + Lienhard

Project List - Spray Concrete

Bekaert • Maccaferri Underground Solutions



Year	Project	Tunnel Type	Country	ØExt (I)	Fibre Type	Spray Method	Lining	Client
2012	Hongrain Cavern and Access Tunnel	Hydro	Switzerland		Dramix® 3D	Wet	Temporary	PraderLosinger SA
2012	Meiringen Power Plant Parallel Shaft	Hydro	Switzerland		Dramix® 3D	Wet	Temporary	Ghelma Meiringen
2011	Buyukduz HEPP	Hydro	Turkey	7,00	Dramix® 3D	Wet	Permanent	
2011	Kandil Dam	Hydro	Turkey	7,00	Dramix® 3D	Wet	Temporary	
2011	Sariguzel Dam	Hydro	Turkey	7,00	Dramix® 3D	Wet	Temporary	
2011	Eyholz Tunnel - A9 Visp South Bypass	Road	Switzerland		Dramix® 3D	Wet	Temporary	Frutiger AG
2011	Susten Tunnel - A9 Sierre-Leuk/Susten	Road	Switzerland		Dramix® 3D	Wet	Temporary	PraderLosinger SA
2011	Hubelmatt Tunnel Olten	Road	Switzerland		Dramix®	Wet	Temporary	Barese! Stuttgart - Pitsch AG
2011	Erschliessung Kavernenprojekt Lântigen	Utility	Switzerland		Dramix® 3D	Wet	Temporary	Jäger Bau GmbH
2011	Taschinas Power Plant	Hydro	Switzerland		Dramix®	Wet	Temporary	Rothpletz + Lienhard
2011	Riedberg Tunnel (1st stage)	Road	Switzerland		Dramix®	Wet	Temporary	Barese! Stuttgart
2010	Aksu-Yedigoller HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2010	Cayeli Copper Mine	Mining	Turkey	5,00	Dramix® 3D	Wet	Permanent	
2010	Hacininoglu Dam	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2010	Hacininoglu Dam	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2010	Engelberg Tunnel	Rail	Switzerland		Dramix®	Wet	Temporary	Strabag AG
2009	Rio Grijalva Portal & Slope Stabilization	Utility	Mexico		Dramix® 3D			
2009	Uzunderere - 1 HEPP	Hydro	Turkey	7,00	Dramix® 3D	Wet	Permanent	
2009	Yedigöze HEPP	Hydro	Turkey	8,00	Dramix® 3D	Wet	Temporary	
2009	Chätzhüs Ventilation Gallery - Visp	Road	Switzerland		Dramix®	Wet	Temporary	PraderLosinger SA
2009	Schattenhalb Power Plant	Hydro	Switzerland		Dramix®	Wet	Temporary	Gasser Felstechnik / Frutiger AG
2009	Innertkirchen Pressure Tunnel	Hydro	Switzerland		Dramix®	Wet	Temporary	Marti AG
2009	Aescher Tunnel - A3/A4 Zurich West Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2008	Tunel Presa Palomino	Hydro	Dominican Rep.		Wirand		Temporary	Odebrecht
2008	Autostrada A1 - FI Sud - FI Nord	Road	Italy		Wirand		Temporary	Autostrade per l'Italia S.p.A.
2008	Autostrada A1 - Variante di Valico - Lotto 12	Road	Italy		Wirand		Temporary	Autostrade per l'Italia S.p.A.
2008	Autostrada A1 - Variante di Valico - Lotto 13	Road	Italy		Wirand		Temporary	Autostrade per l'Italia S.p.A.
2008	Autostrada A1 - Variante di Valico - Lotto 17	Road	Italy		Wirand		Temporary	Autostrade per l'Italia S.p.A.
2008	Autostrada A1 - Variante di Valico - Lotto 9-10-11	Road	Italy		Wirand		Temporary	Autostrade per l'Italia S.p.A.
2008	Autostrada A3 SA-RC DG21	Road	Italy		Wirand		Temporary	ANAS
2008	Direttrice Orte Terni Rieti	Road	Italy		Wirand		Temporary	ANAS
2008	Foro Pilota Galleria del Brennero	Rail	Italy		Wirand		Temporary	Italferr s.p.A.
2008	Galleria Pavoncelli Benevento	Hydro	Italy		Wirand		Temporary	Regione Campania
2008	Raddoppio Ferroviario Palermo-Agrigento	Rail	Italy		Wirand		Temporary	Italferr s.p.A.
2008	SS 337 - Val Vigezzo - Domodossola	Road	Italy		Wirand		Temporary	ANAS
2008	Variante di Lugano	Road	Switzerland		Wirand		Temporary	Cantone di Lugano
2008	Cevizlik +Yokuslu HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2008	Cevizlik +Yokuslu HEPP	Hydro	Turkey	6,00	Dramix® 3D	Wet	Temporary	
2008	Sous le Mont Tunnel - Tavannes	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
2007	Túnel Presa Central La Higuera	Hydro	Chile		Wirand		Temporary	Pacific Hydro
2007	Tunel del SumaPaz	Road	Colombia		Wirand		Temporary	Semaica
2007	Autostrada A24 - Villa Vomano	Road	Italy		Wirand		Temporary	Autostrada dei Parchi S.p.A.
2007	Bretella di Urbino	Road	Italy		Wirand		Temporary	ANAS
2007	Galleria Castellano Ancona	Rail	Italy		Wirand		Temporary	Italferr s.p.A.
2007	Passante Ferroviario di Bologna	Rail	Italy		Wirand		Temporary	Italferr s.p.A.
2007	Raddoppio Ferroviario Messina-Catania	Rail	Italy		Wirand		Temporary	Italferr s.p.A.
2007	SS 106 - Variante di Palizzi	Road	Italy		Wirand		Temporary	ANAS
2007	SS 125 - Orientale Sarda - Cardedu-Tortolì	Road	Italy		Wirand		Temporary	ANAS
2007	Trasversale delle Serre	Road	Italy		Wirand		Temporary	ANAS
2007	Variante di Moena (TN)	Road	Italy		Wirand		Temporary	Provincia di Trento
2007	Mina Morocochoa	Mining	Peru		Wirand		Temporary	Cia Minera Argentun
2006	Nor Oriente Access, Santiago Highway	Road	Chile		Wirand		Temporary	SACYR
2006	Tunel Santiago	Road	Chile		Wirand		Temporary	Sacyr
2006	La Linea Tunnel	Road	Colombia		Wirand		Temporary	Concreto
2006	Tunel Presa Pinalito	Hydro	Dominican Rep.		Wirand		Temporary	Polanco
2006	Mazar Phase II - Hydroelectrical Project	Hydro	Ecuador		Wirand		Temporary	Impregilo
2006	Siah Bishe Pump Storage Project	Utility	Iran, Islamic Republic of	3,00	Dramix® 3D	Dry	Permanent	
2006	Tunnel, Fortuna Hydroelectrical System	Hydro	Panama		Wirand		Temporary	Concreto

Project List - Spray Concrete

Bekaert • Maccaferri Underground Solutions



Year	Project	Tunnel Type	Country	ØExt (I)	Fibre Type	Spray Method	Lining	Client
2006	Mina Poderosa	Mining	Peru		Wirand		Temporary	Unidad Minera Jimena
2006	Mariani Tunnel, PR 53 Highway	Road	Puerto Rico		Wirand		Temporary	Ferrovial - Agroman
2006	Precast Segments & Shotcrete, Hydraulic Tunnel, Pinalito.	Hydro	Republica Dominicana		Wirand		Permanent	Odebrecht
2006	Götatunnel	Road	Sweden		Dramix® + Duomix® M6 Fire			
2006	Train Rail La Encrucijada Puerto Cabello	Rail	Venezuela		Wirand		Temporary	Astaldi - Impregilo - Ghella
2006	Isilsberg Tunnel - A4	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
2006	Uetliberg Tunnel - A3 Zurich South Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2006	Safety Gallery Melide Grancia A2	Road	Switzerland		Dramix®	Wet	Temporary	Strabag AG
2005	Cons. Irapé Civil	Hydro	Brazil		Wirand		Temporary	Cons. Irapé Civil
2005	Ferbasa	Mining	Brazil		Wirand		Temporary	Ferbasa
2005	Tunnel ST MARIE AUX MINES	Mining	France		Wirand		Temporary	VICAT
2005	Agordo- Belluno	Road	Italy		Wirand		Temporary	Anas
2005	Aosta- Pinerolo	Road	Italy		Wirand		Temporary	Anas
2005	Asti Cuneo	Road	Italy		Wirand		Temporary	Anas
2005	Avigliana - To	Road	Italy		Wirand		Temporary	Provincia
2005	Catania - Siracusa	Road	Italy		Wirand		Temporary	Anas Catania
2005	Contursi	Road	Italy		Wirand		Temporary	Autostrade per l'Italia
2005	GRA - Roma Trionfale	Road	Italy		Wirand		Temporary	Anas
2005	SA- RC Mileto	Road	Italy		Wirand		Temporary	Anas
2005	Torino- Vigizzo	Road	Italy		Wirand		Temporary	Anas
2005	V. di Valico Lotto 2	Road	Italy		Wirand		Temporary	Autostrade per l'Italia
2005	V. di Valico Lotto 3	Road	Italy		Wirand		Temporary	Autostrade per l'Italia
2005	V. di Valico Lotto 9 - 10 - 11	Road	Italy		Wirand		Temporary	Autostrade per l'Italia
2005	Tunel Presa Pillones	Hydro	Peru		Wirand		Temporary	Pillones
2005	Linea 3	Metro	Spain		Wirand		Temporary	Madrid
2005	Linea 5	Metro	Spain		Wirand		Temporary	Madrid
2005	Linea 9	Metro	Spain		Wirand		Temporary	Barcelona
2005	Tunnel Arbuio	Rail	Spain		Wirand		Temporary	Vizcaya
2005	Tunnel de la Molina	Rail	Spain		Wirand		Temporary	Trubia (Asturias)
2005	Tunnel del AVE Levante	Rail	Spain		Wirand		Temporary	Cuenca AVE Levante
2005	Tunnel del Tendido	Rail	Spain		Wirand		Temporary	Cuenca AVE Levante
2005	Tunnel Pousadorio	Rail	Spain		Wirand		Temporary	Portas 2
2005	Tunnel Sant Celoni - Massanes	Rail	Spain		Wirand		Temporary	Sant Celoni
2005	Ute Massanes	Rail	Spain		Wirand		Temporary	Massanes- Massanet
2005	Caracas	Road	Venezuela		Wirand		Temporary	Ferrocarril
2005	Caracas - Chacao	Road	Venezuela		Wirand		Temporary	Ferrocarril
2005	Caracas - Chacao	Road	Venezuela		Wirand		Temporary	Ferrocarril
2005	Caracas - S. Diego Entrada	Road	Venezuela		Wirand		Temporary	Ferrocarril
2005	Caracas - S. Diego Entrada	Road	Venezuela		Wirand		Temporary	Ferrocarril
2005	Tunnel del Cadi II	Rail	Venezuela		Wirand		Temporary	Ferrocarril
2005	Kirchenwald Tunnel - A2 Hergiswil	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2005	Stägjitschuggen - H213 Steinschlaggebiet Mattertal Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Frutiger AG
2004	Emisario Terrestre A Malata	Rail	Spain		Wirand		Temporary	Andalucia
2004	Encrucijada - Puerto Cabello	Rail	Spain		Wirand		Temporary	Galicia - AVE
2004	Linea 3	Metro	Spain		Wirand		Temporary	Barcelona
2004	Queixas - Galicia	Rail	Spain		Wirand		Temporary	AVE
2004	Tunnel Benalmadena - Fuengirola	Road	Spain		Wirand		Temporary	Cataluni
2004	Tunnel de Pertegas	Rail	Spain		Wirand		Temporary	San Celoni - AVE
2004	Tunnel de Pousadoiro	Rail	Spain		Wirand		Temporary	Galicia - AVE
2004	Tunnel del Padrón	Hydro	Spain		Wirand		Temporary	El Ferrol
2004	Tunnel MontBlanc	Rail	Spain		Wirand		Temporary	Montblanc Catalunya - AVE
2004	Tunnel MontBlanc	Rail	Spain		Wirand		Temporary	Montblanc Catalunya - AVE
2004	Tunnel Oliana	Road	Spain		Wirand		Temporary	Pirineo
2004	Tunnel Peñafior II	Road	Spain		Wirand		Temporary	Asturias
2004	Tunnel del Cadi II	Rail	Venezuela		Wirand		Temporary	Valencia
2004	Engstlige Tunnel - Reichenbach-Frutigen	Rail	Switzerland		Dramix®	Wet	Temporary	Frutiger AG
2004	Lötschberg Base Tunnel	Rail	Switzerland		Dramix®	Wet	Temporary	Strabag AG
2004	Flimsenstein Tunnel - Flims Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2004	Raimeux Tunnel A16 Roches-Moutier	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG

Project List - Spray Concrete

Bekaert • Maccaferri Underground Solutions



Year	Project	Tunnel Type	Country	ØExt (I)	Fibre Type	Spray Method	Lining	Client
2004	Chienberg Tunnel - Sissach Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2003	Ave Cartama	Rail	Spain		Dramix® 3D			
2003	Castellbisbal	Rail	Spain		Wirand		Temporary	Barcelona - AVE
2003	Castrejon de la Peña	Mining	Spain		Wirand		Temporary	Palencia
2003	Circunvalación Las palmas	Road	Spain		Wirand		Temporary	Gran Canarias
2003	Ezcaba	Road	Spain		Wirand		Temporary	Pamplona
2003	Lantueno	Rail	Spain		Wirand		Temporary	Cantabria
2003	Lignitos de Meraima	Mining	Spain		Wirand		Temporary	Coruña
2003	Nerja-Almuñecar	Road	Spain		Wirand		Temporary	Almuñecar
2003	Perdón	Road	Spain		Wirand		Temporary	Pamplona
2003	Tevilla y Gibralmora	Rail	Spain		Wirand		Temporary	Málaga
2002	Gilgel Gibe Hydroelectric Project	Hydro	Ethiopia		Wirand		Temporary	Ethiopia Authority
2002	Ignatia Project (tunnel)	Road	Greece		Wirand		Temporary	Greek Government
2002	Ignatia Project (tunnel)	Road	Greece		Wirand		Temporary	Greek Government
2002	Kakia Skala Tunnel	Road	Greece		Wirand		Temporary	Greek Road Authority
2002	Aulla Tunnel	Road	Italy		Wirand		Temporary	Anas
2002	Campagna Tunnel	Road	Italy		Wirand		Temporary	Salerno - Reggio Calabria Highway
2002	Caramanico Tunnel (CH)	Road	Italy		Wirand		Temporary	ANAS Pescara
2002	Castiadas Tunnel	Road	Italy		Wirand		Temporary	ANAS Cagliari
2002	Dolonne Tunnel	Road	Italy		Wirand		Temporary	RAV - Aosta
2002	Francavilla Tunnel (PE)	Road	Italy		Wirand		Temporary	ANAS Pescara
2002	Guinza tunnel (PG)	Road	Italy		Wirand		Temporary	ANAS Perugia
2002	Iscapolla Tunnel	Road	Italy		Wirand		Temporary	Anas
2002	Metro Genova	Rail	Italy		Wirand		Temporary	Genova Municipality
2002	Montesilvano Tunnel	Road	Italy		Wirand		Temporary	ANAS Pescara
2002	Nicosia Tunnel	Road	Italy		Wirand		Temporary	ANAS - Palermo
2002	Pontecagnano Tunnel	Road	Italy		Wirand		Temporary	Salerno - Reggio Calabria Highway
2002	T.A.V. Firenze-Bologna	Rail	Italy		Wirand		Temporary	F.S. SpA
2002	Val Badia Tunnel	Road	Italy		Wirand		Temporary	Bolzano Municipality
2002	Valfabbrica Tunnel (PG)	Road	Italy		Wirand		Temporary	ANAS Perugia
2002	Vibo Valenzia Tunnel	Road	Italy		Wirand		Temporary	Salerno - Reggio Calabria Highway
2002	Osebe	Rail	Spain		Wirand		Temporary	Santiago
2002	Tunnel quatro boques -Tarragona	Road	Spain		Wirand		Temporary	Spanish Road Authority
2002	Anatolian Motorway (Turkey)	Rail	Turkey		Wirand		Temporary	Turkish Government
2002	Gotschna Tunnel - A28 Klosters Bypass	Road	Switzerland		Dramix®	Wet	Temporary	ARGE Gotschnatunnel
2002	Fluelen Bypass Tunnel - A4	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2002	Giswil Tunnel - A8 Giswil Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2001	Cipolla Tunnel	Road	Italy		Wirand		Temporary	ANAS Palermo
2001	Military Tunnel	Road	Italy		Wirand		Temporary	NATO
2001	Water reservoir (PG)	Hydro	Italy		Wirand		Permanent	Palermo Municipality
2001	Varen Tunnel - Salgesch-Leuk	Rail	Switzerland		Dramix®	Wet	Temporary	PraderLosinger SA
2001	Oenzberg Tunnel - Mattstetten-Rothrist	Rail	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2000	Tunel Lo Prado	Road	Chile		Wirand	Wet		MOPT
2000	ATE-GNOMON / Impreglio - GRECIA	Road	Italy		Wirand		Temporary	Greek Authority
2000	San Benedetto Tunnel	Road	Italy		Wirand		Temporary	ANAS Genova
2000	Zimmerberg Base Tunnel I	Rail	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
2000	Bure Tunnel - A16	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
2000	Graitery Tunnel - A16 Moutier-Court	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
2000	Oiten Bypass Tunnel	Road	Switzerland		Dramix®	Wet	Temporary	BareseL Stuttgart - Pitsch AG
1999	T.A.V. Milano-Genova	Rail	Italy		Wirand		Temporary	F.S. SpA
1999	Lungern Bypass Tunnel - A8	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
1999	Vedeggio-Cassarate Tunnel - Lugano Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
1999	Gorgier Tunnel - A5	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
1998	Kali Gandaki "A" Hydroelectric project	Hydro	Nepal		Wirand		Temporary	NEPAL ELECTRICITY
1998	Bolu Road Tunnel	Road	Turkey	16,00	Dramix® 3D	Wet	Temporary	
1998	Bolu Road Tunnel	Road	Turkey	16,00	Dramix® 3D	Wet	Temporary	
1998	Trabzon	Road	Turkey	12,00	Dramix® 3D	Dry	Temporary	
1998	Trabzon	Road	Turkey	12,00	Dramix® 3D	Dry	Temporary	

Project List - Spray Concrete

Bekaert • Maccaferri Underground Solutions



Year	Project	Tunnel Type	Country	ØExt (I)	Fibre Type	Spray Method	Lining	Client
1998	Saas Bypass Tunnel - A28	Road	Switzerland		Dramix®	Wet	Temporary	Rothplez + Lienhard - Walo AG
1998	Arrissoules Tunnel - A1	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1998	Pomy Tunnel - A1	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1997	Metrol di Roma	Metro	Italy		Wirand		Temporary	CITY OF ROME
1997	T.A.V. Roma-Napoli	Rail	Italy		Wirand		Temporary	F.S. Spa
1997	Theun-Himinboun – Laos Power Project	Hydro	Laos		Wirand		Temporary	Theun-Invoun Power Company
1996	Fleres tunnel (BZ)	Rail	Italy		Wirand		Temporary	FF.SS.
1996	Hydraulic tank	Hydro	Italy		Wirand		Temporary	Regione Siciliana
1996	Mont Blanc-Aosta highway (Salice D'Ulzo)	Road	Italy		Wirand		Temporary	ANAS-SITAF
1996	Schio tunnel	Road	Italy		Wirand		Temporary	ANAS
1996	Vomano DAM (TE)	Hydro	Italy		Wirand		Temporary	ENEL
1996	Sauges Tunnel	Rail	Switzerland		Dramix®	Wet	Temporary	Marti AG
1996	Vereina Tunnel	Rail	Switzerland		Dramix®	Wet	Temporary	ARGE Vereinatunnel
1996	Eggflue Tunnel - Grellingen	Road	Switzerland		Dramix®	Wet	Temporary	ARGE Tunnel Grellingen
1996	Mappo-Moretino Tunnel - A13 Locarno Bypass	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1995	Highway Torino – Bardonecchia – Bussoleno (TO)	Road	Italy		Wirand		Temporary	ANAS-SITAF
1995	Lastra a Signa (FI) Tunnel	Rail	Italy		Wirand		Temporary	FF.SS.
1995	Salerno tunnel	Rail	Italy		Wirand		Temporary	FF.SS.
1995	Tarvisio tunnel (UD)	Rail	Italy		Wirand		Temporary	FF.SS.
1995	Mont Russelin Tunnel - A16 Glovelier-St. Ursanne	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1995	Mont Terri Tunnel - A16 St. Ursanne-Courgenay	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1995	Pierre Pertuis Tunnel - A16 Sonceboz-Tavannes	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1995	Vignes Tunnel - A1 Münchenwiler-Courgevaux	Road	Switzerland		Dramix®	Wet	Temporary	Marti AG
1994	Acerenza Dam (Potenza)	Hydro	Italy		Wirand		Temporary	Ag. Sviluppo del mezzogiorno
1994	Ancona-Bari (Vasto – CH)	Rail	Italy		Wirand		Temporary	FF.SS.
1994	Aurelia bis	Road	Italy		Wirand		Temporary	ANAS
1994	Connection between highway A24 and the Mausonia road (AQ)	Road	Italy		Wirand		Temporary	ANAS
1994	Fresh water tunnel	Hydro	Italy		Wirand		Permanent	Ag. Sviluppo del mezzogiorno
1994	Highway Torino – Bardonecchia – Bussoleno (TO)	Road	Italy		Wirand		Temporary	ANAS-SITAF
1994	Meysattaz Aosta	Road	Italy		Wirand		Temporary	SAV
1994	Napoli-Bari (Foglianise – BN)	Rail	Italy		Wirand		Permanent	FF.SS.
1994	Pontebba-Tarvisio	Rail	Italy		Wirand		Temporary	FF.SS.
1994	S.G.C. E 45 – Orte – Ravenna	Road	Italy		Wirand		Temporary	ANAS
1994	Sibari-Cosenza S. Marco	Rail	Italy		Wirand		Temporary	FF.SS.
1994	Sachsen Bypass Tunnel - A8	Road	Switzerland		Dramix®	Wet	Temporary	Gasser Felstechnik AG - Implenia AG
1994	Vispental Tunnel - A9	Road	Switzerland		Dramix®	Wet	Temporary	PraderLosinger SA
1993	Electric power station	Hydro	Italy		Wirand		Temporary	Enel (Torino)
1993	Highway Torino –	Road	Italy		Wirand		Temporary	ANAS-SITAF
1993	SS Porrettana - Riola (Bo)	Road	Italy		Wirand		Temporary	ANAS
1993	Boezberg Tunnel - A3 Schinznach Dorf-Effingen	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
1993	Crapteig Tunnel - A13 Thusis-Rongellen	Road	Switzerland		Dramix®	Wet	Temporary	Batigroup AG
1992	Aurelia bis (Follonica – LI)	Road	Italy		Wirand		Temporary	ANAS
1992	Laverogne Avise (AO)	Road	Italy		Wirand		Temporary	R.A.V.
1992	SS 4 Salaria (RI) – S.G.C.	Road	Italy		Wirand		Temporary	ANAS
1992	Zugwald Tunnel - Klosters-Selfranga	Rail	Switzerland		Dramix®	Wet	Temporary	Pitsch AG
1992	Leissingen Bypass Tunnel - A8	Road	Switzerland		Dramix®	Wet	Temporary	Frutiger AG
1992	Trin Bypass Tunnel	Road	Switzerland		Dramix®	Wet	Temporary	Implenia Schweiz AG
1991	Pontremolese – S. Stefano M. (SP)	Rail	Italy		Wirand		Temporary	FF.SS.