

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|                                                                        |    |                                                                                                                       |
|------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------|
| (51) International Patent Classification 7 :<br>E21F 16/02, E21D 11/38 | A1 | (11) International Publication Number: WO 00/05487<br>(43) International Publication Date: 3 February 2000 (03.02.00) |
|------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------|

(21) International Application Number: PCT/EP99/04407

(22) International Filing Date: 24 June 1999 (24.06.99)

(30) Priority Data:  
9815685.4 20 July 1998 (20.07.98) GB

(71) Applicant (for all designated States except US): MBT HOLD-  
ING AG [CH/CH]; Vulkanstrasse 110, CH-8048 Zürich  
(CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRANDENBERGER,  
Rolf [CH/CH]; Kirchweg 59, CH-8102 Oberengstringen  
(CH); GARSHOL, Knut, Finn [NO/NO]; Bregnevien 29,  
N-1825 Tomter (NO); MELBYE, Tom, Arild [NO/CH];  
Oberhausensteig 16, CH-8907 Wettswil (CH); SCHUBERT,  
Peter, Alexander [AT/AT]; Berg 36, A-5102 Anthering  
(AT).

(74) Agent: McSTEa, John, Anthony; Patents and Trade Marks,  
MBT (Schweiz) AG, Vulkanstrasse 110, CH-8048 Zürich  
(CH).

(81) Designated States: AU, JP, NO, SG, US, European patent (AT,  
BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,  
MC, NL, PT, SE).

Published  
With international search report.

(54) Title: WATERPROOF CLADDING

(57) Abstract

A cladding for a partially-overhanging substrate, such as a tunnel wall which comprises, in sequence from the tunnel wall, a drainage means, a sprayed polymeric membrane and a final layer of concrete. The cladding gives an effective cladding in conditions where the tunnel walls suffer from running water at the time of cladding, is easier to apply and requires less material.

