

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(10) International Publication Number  
**WO 2024/223782 A1**

(43) International Publication Date  
31 October 2024 (31.10.2024)

(51) International Patent Classification:  
*C08G 18/42* (2006.01) *C08G 18/75* (2006.01)  
*C08G 18/73* (2006.01)

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:  
PCT/EP2024/061470

Published:  
— with international search report (Art. 21(3))

(22) International Filing Date:  
25 April 2024 (25.04.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
23170095.6 26 April 2023 (26.04.2023) EP

(71) Applicant: JOTUN A/S [NO/NO]; P.O. Box 2021, 3202  
Sandefjord (NO).

(72) Inventors: MAI, Hieu Trung; Roppestadkollen 58, 3138  
Skallestad (NO). AUSTLI, Guro Buaas; Hauanåsen 7b,  
3213 Sandefjord (NO).

(74) Agent: CAMPBELL, Neil; St Bride's House, 10 Salisbury  
Square, London Greater, London EC4Y 8JD (GB).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,  
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,  
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,  
MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,  
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,  
RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,  
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, CV,  
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST,  
SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,  
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,  
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,  
LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,

(54) Title: PROTECTIVE COATING COMPOSITION

(57) Abstract: The invention relates to a two-component polyurethane coating composition having a VOC of less than 380 g/L when calculated in accordance with ASTM D5201-05a, said composition comprising: A) a first component comprising: (i) a branched polyester polyol having a hydroxy value of 500 mgKOH/g or more and a hydroxy functionality of 2 or more, preferably 3 or more; (ii) a polyester polyol having a hydroxy value of 250 mgKOH/g or more and a hydroxy functionality of 2 or more, preferably 3 or more; (iii) optionally one or more acrylic polyols having a hydroxy value of at least 50 mgKOH/g; and (iv) optionally pigments and fillers, preferably 30 to 60 wt% solids, more preferably 40 to 50 wt% solids pigments and fillers, relative to the total (wet) weight of component A); and B) a second component comprising a polyisocyanate; wherein polyester polyols (i) and (ii) are different.



WO 2024/223782 A1