

MACON / ΛΥΣΕΙΣ ΕΦΑΡΜΟΓΩΝ



ΤΕΥΧΟΣ ΟΔΗΓΙΩΝ ΕΦΑΡΜΟΓΗΣ ΚΑΙ
ΤΕΧΝΙΚΩΝ ΔΕΔΟΜΕΝΩΝ

ΕΙΔΟΣ ΕΡΓΑΣΙΩΝ: ΕΠΙΦΑΝΕΙΑΚΗ ΠΡΟΣΤΑΣΙΑ ΔΑΠΕΔΩΝ
ΜΕ ΠΟΛΥΟΥΡΕΘΑΝΙΚΑ ΚΟΝΙΑΜΑΤΑ

ΙΟΥΛΙΟΣ 2023


MACON

ΕΠΙΦΑΝΕΙΑΚΗ ΠΡΟΣΤΑΣΙΑ ΔΑΠΕΔΩΝ

ΠΕΡΙΕΧΟΜΕΝΑ

1. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT

1.1. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT της Fosroc - Σύστημα 3,0 mm – Οδηγία Εφαρμογής / Άρθρο Μελέτης

1.2. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT της Fosroc - Σύστημα 6,0 mm – Οδηγία Εφαρμογής / Άρθρο Μελέτης

1.3. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT της Fosroc – Τεχνικές Λεπτομέρειες

2. Επιφανειακή Προστασία Δαπέδου Πολύ Υψηλής Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor RT6000 UT

2.1. Επιφανειακή Προστασία Δαπέδου Πολύ Υψηλής Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor RT6000 UT της Fosroc - Σύστημα 9,0 mm – Οδηγία Εφαρμογής / Άρθρο Μελέτης

2.2. Επιφανειακή Προστασία Δαπέδου Πολύ Υψηλής Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor RT6000 UT της Fosroc – Τεχνικές Λεπτομέρειες

3. Τεχνικά Φυλλάδια



1.1. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT της Fosroc - Σύστημα 3,0 mm

Για την επιφανειακή προστασία του δαπέδου, επιλέγεται η εφαρμογή του τριών συστατικών, αυτοεπιπεδούμενου, πολυουρεθανικού κονιάματος **Nitoflor SL3000 UT** της **Fosroc**. Το υλικό θα φέρει σήμανση CE, θα συμμορφώνεται κατά EN 1504-2 (Μέθοδοι 1.3, 5.1 και 6.1) και θα έχει θερμοκρασιακό εύρος λειτουργίας: -5 °C έως +60°C. Το υπόστρωμα εφαρμογής του συστήματος θα είναι καθαρό, απαλλαγμένο από λάδια, σκόνες, σαθρά υλικά, αποφλοιωμένο σκυρόδεμα. Η εφελκυστική αντοχή του σκυροδέματος υποδοχής θα είναι >1,5 MPa. Θα προβλεφθεί η κατασκευή εσοχών/αρμών αγκύρωσης του υλικού (anchorage grooves) διαστάσεων 10x10 (mm). Μετά την προετοιμασία του υποστρώματος θα ακολουθήσει η εφαρμογή της στρώσης ασταρώματος με τη χρήση του **Nitoflor SL3000 UT**. Η ανάμιξη του υλικού θα λάβει χώρα σε δύο φάσεις. Αρχικά θα πραγματοποιηθεί ανάμιξη της βάσης και του σκληρυντή του υλικού με αργόστροφο, μηχανικό αναδευτήρα έως την παραγωγή ομοιόμορφου μίγματος και στη συνέχεια θα ακολουθήσει η εισαγωγή του Γ συστατικού (filler) ταυτόχρονα με την ανάμιξη, έως την παραγωγή ομοιόμορφου μίγματος χωρίς συσσωματώματα. Αμέσως μετά θα ακολουθήσει η εφαρμογή του υλικού με μεταλλική σπάτουλα εντός του χρόνου εργασιότητας του υλικού, έτσι όπως ορίζεται στο τεχνικό του φυλλάδιο (15-20 λεπτά στους 30 °C). Το ιδανικό θερμοκρασιακό εύρος υποστρώματος, υλικού και ατμοσφαιρικού αέρα κατά την εφαρμογή είναι: +15 °C έως +30 °C. Ο ελάχιστος χρόνος αναμονής μεταξύ της εφαρμογής της στρώσης ασταρώματος και της τελικής επίστρωσης (στους 20 °C) θα υπολογίζεται ίσος με 12-48 ώρες. Μετά την ολοκλήρωση του παραπάνω βήματος θα ακολουθήσει η εφαρμογή της τελικής επίστρωσης με τη χρήση του **Nitoflor SL3000 UT**. Η ανάμιξη του υλικού θα πραγματοποιηθεί έτσι όπως έχει περιγραφεί παραπάνω και η εφαρμογή του υλικού θα πραγματοποιηθεί με χρήση οδοντωτής σπάτουλας και ακιδωτού ρολού για την αποδέσμευση εγκλωβισμένου αέρα. Μετά την ολοκλήρωση του παραπάνω βήματος θα πρέπει να προβλεφθεί η προστασία του δαπέδου από υγρασία, συμπύκνωση και νερό για ελάχιστο χρονικό διάστημα 4 ημερών. Ο χρόνος αναμονής για την παραλαβή κυκλοφοριακού φόρτου πεζών θα υπολογίζεται ίσος με 12 ώρες, για την παραλαβή φόρτου ελαφρών τροχήλατων ίσος με 24 ώρες, για την παραλαβή κυκλοφοριακού φόρτου ελαφρού τύπου 48 ώρες, για την παραλαβή κυκλοφοριακού φόρτου βαρέως τύπου 7 ημέρες και για την πλήρη ανάπτυξη χημικής αντοχής 7 ημέρες.

Παρακάτω παρατίθεται το σύστημα ανάπτυξης:

Nitoflor SL3000 UT / 3,0 mm		
ΕΦΑΡΜΟΓΗ	ΥΛΙΚΟ	ΚΑΤΑΝΑΛΩΣΗ
Αστάρωμα	Nitoflor SL3000 UT	2,0 kg/m ²
Τελική επίστρωση	Nitoflor SL3000 UT	6,0 kg/m ²



1.2. Επιφανειακή Προστασία Δαπέδου Μεσαίας Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor SL3000 UT της Fosroc - Σύστημα 6,0 mm

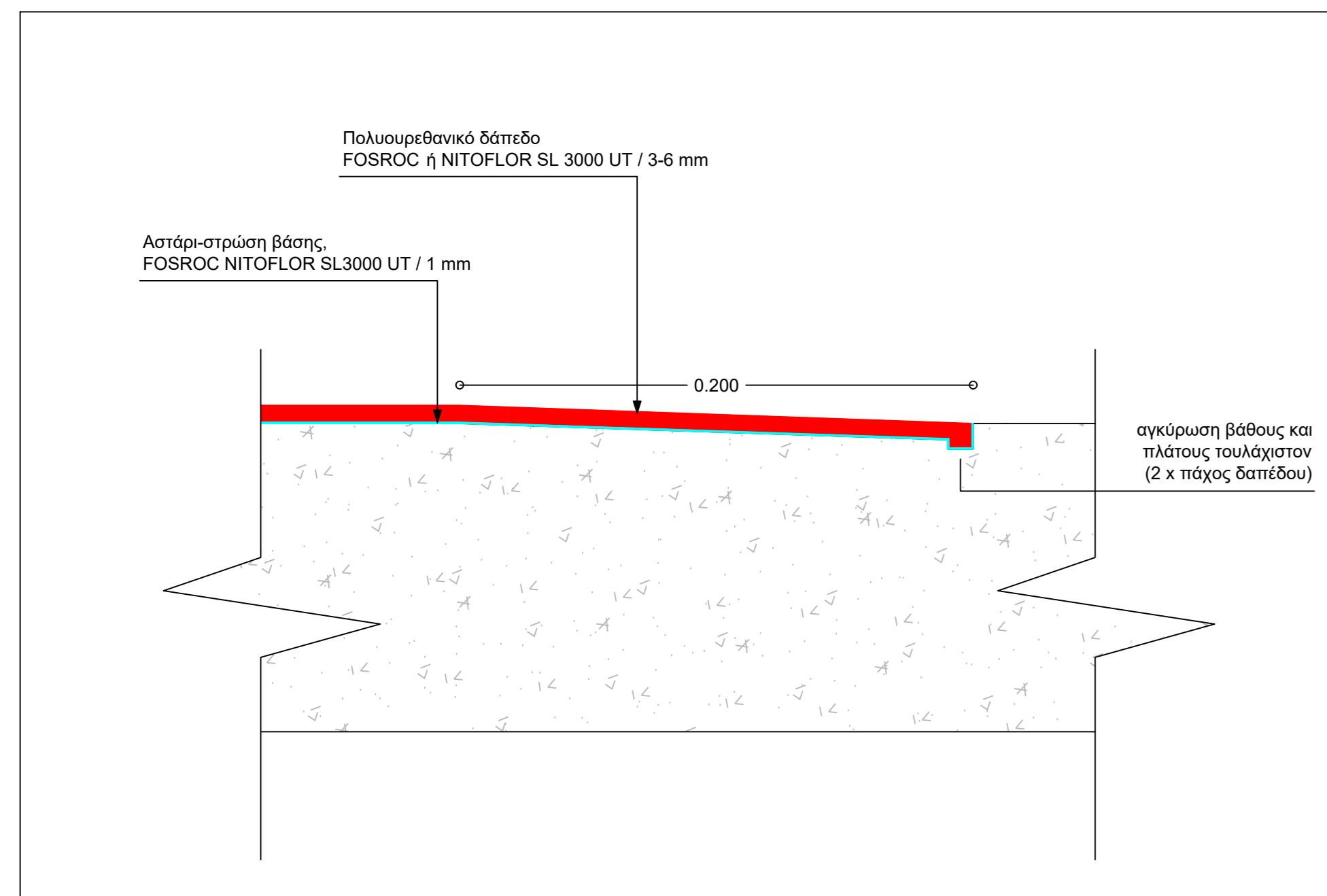
Για την επιφανειακή προστασία του δαπέδου, επιλέγεται η εφαρμογή του τριών συστατικών, αυτοεπιπεδούμενου, πολυουρεθανικού κονιάματος **Nitoflor SL3000 UT** της **Fosroc**. Το υλικό θα φέρει σήμανση CE, θα συμμορφώνεται κατά EN 1504-2 (Μέθοδοι 1.3, 5.1 και 6.1) και θα έχει θερμοκρασιακό εύρος λειτουργίας: -10 °C έως +70°C. Το υπόστρωμα εφαρμογής του συστήματος θα είναι καθαρό, απαλλαγμένο από λάδια, σκόνες, σαθρά υλικά, αποφλοιωμένο σκυρόδεμα. Η εφελκυστική αντοχή του σκυροδέματος υποδοχής θα είναι >1,5 MPa. Θα προβλεφθεί η κατασκευή εσοχών/αρμών αγκύρωσης του υλικού (anchorage grooves) διαστάσεων 10x10 (mm). Μετά την προετοιμασία του υποστρώματος θα ακολουθήσει η εφαρμογή της στρώσης ασταρώματος με τη χρήση του **Nitoflor SL3000 UT**. Η ανάμιξη του υλικού θα λάβει χώρα σε δύο φάσεις. Αρχικά θα πραγματοποιηθεί ανάμιξη της βάσης και του σκληρυντή του υλικού με αργόστροφο, μηχανικό αναδευτήρα έως την παραγωγή ομοιόμορφου μίγματος και στη συνέχεια θα ακολουθήσει η εισαγωγή του Γ συστατικού (filler) ταυτόχρονα με την ανάμιξη, έως την παραγωγή ομοιόμορφου μίγματος χωρίς συσσωματώματα. Αμέσως μετά θα ακολουθήσει η εφαρμογή του υλικού με μεταλλική σπάτουλα εντός του χρόνου εργασιότητας του υλικού, έτσι όπως ορίζεται στο τεχνικό του φυλλάδιο (15-20 λεπτά στους 30 °C). Το ιδανικό θερμοκρασιακό εύρος υποστρώματος, υλικού και ατμοσφαιρικού αέρα κατά την εφαρμογή είναι: +15 °C έως +30 °C. Ο ελάχιστος χρόνος αναμονής μεταξύ της εφαρμογής της στρώσης ασταρώματος και της τελικής επίστρωσης (στους 20 °C) θα υπολογίζεται ίσος με 12-48 ώρες. Μετά την ολοκλήρωση του παραπάνω βήματος θα ακολουθήσει η εφαρμογή της τελικής επίστρωσης με τη χρήση του **Nitoflor SL3000 UT**. Η ανάμιξη του υλικού θα πραγματοποιηθεί έτσι όπως έχει περιγραφεί παραπάνω και η εφαρμογή του υλικού θα πραγματοποιηθεί με χρήση οδοντωτής σπάτουλας και ακιδωτού ρολού για την αποδέσμευση εγκλωβισμένου αέρα. Μετά την ολοκλήρωση του παραπάνω βήματος θα πρέπει να προβλεφθεί η προστασία του δαπέδου από υγρασία, συμπύκνωση και νερό για ελάχιστο χρονικό διάστημα 4 ημερών. Ο χρόνος αναμονής για την παραλαβή κυκλοφοριακού φόρτου πεζών θα υπολογίζεται ίσος με 12 ώρες, για την παραλαβή φόρτου ελαφρών τροχήλατων ίσος με 24 ώρες, για την παραλαβή κυκλοφοριακού φόρτου ελαφρού τύπου 48 ώρες, για την παραλαβή κυκλοφοριακού φόρτου βαρέως τύπου 7 ημέρες και για την πλήρη ανάπτυξη χημικής αντοχής 7 ημέρες.

Παρακάτω παρατίθεται το σύστημα ανάπτυξης:

Nitoflor SL3000 UT / 6,0 mm		
ΕΦΑΡΜΟΓΗ	ΥΛΙΚΟ	ΚΑΤΑΝΑΛΩΣΗ
Αστάρωμα	Nitoflor SL3000 UT	2,0 kg/m ²
Τελική επίστρωση	Nitoflor SL3000 UT	12,0 kg/m ²

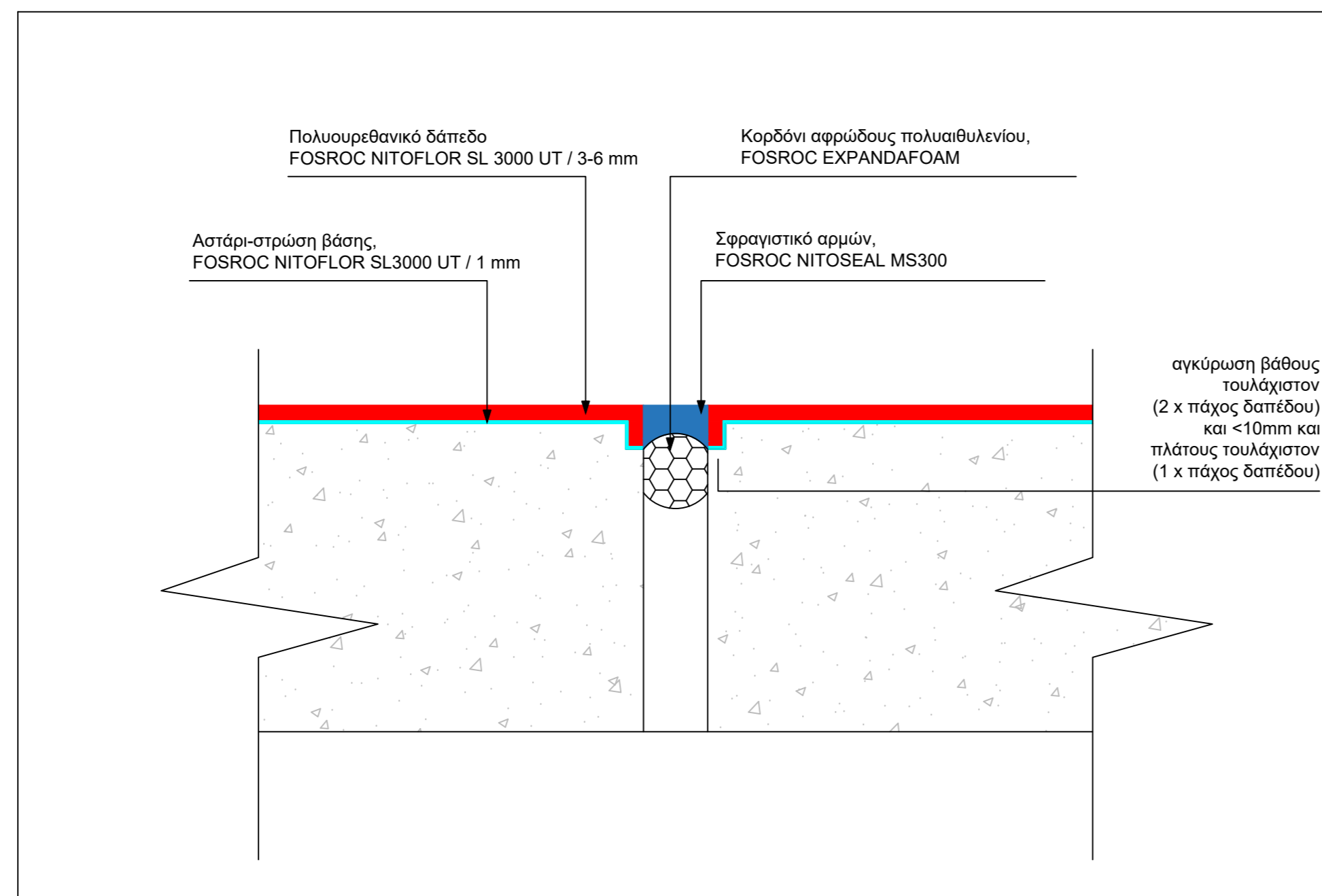
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 01

ΤΕΛΕΙΩΜΑ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ ΣΕ ΕΠΑΦΗ ΜΕ ΑΛΛΟ ΔΑΠΕΔΟ



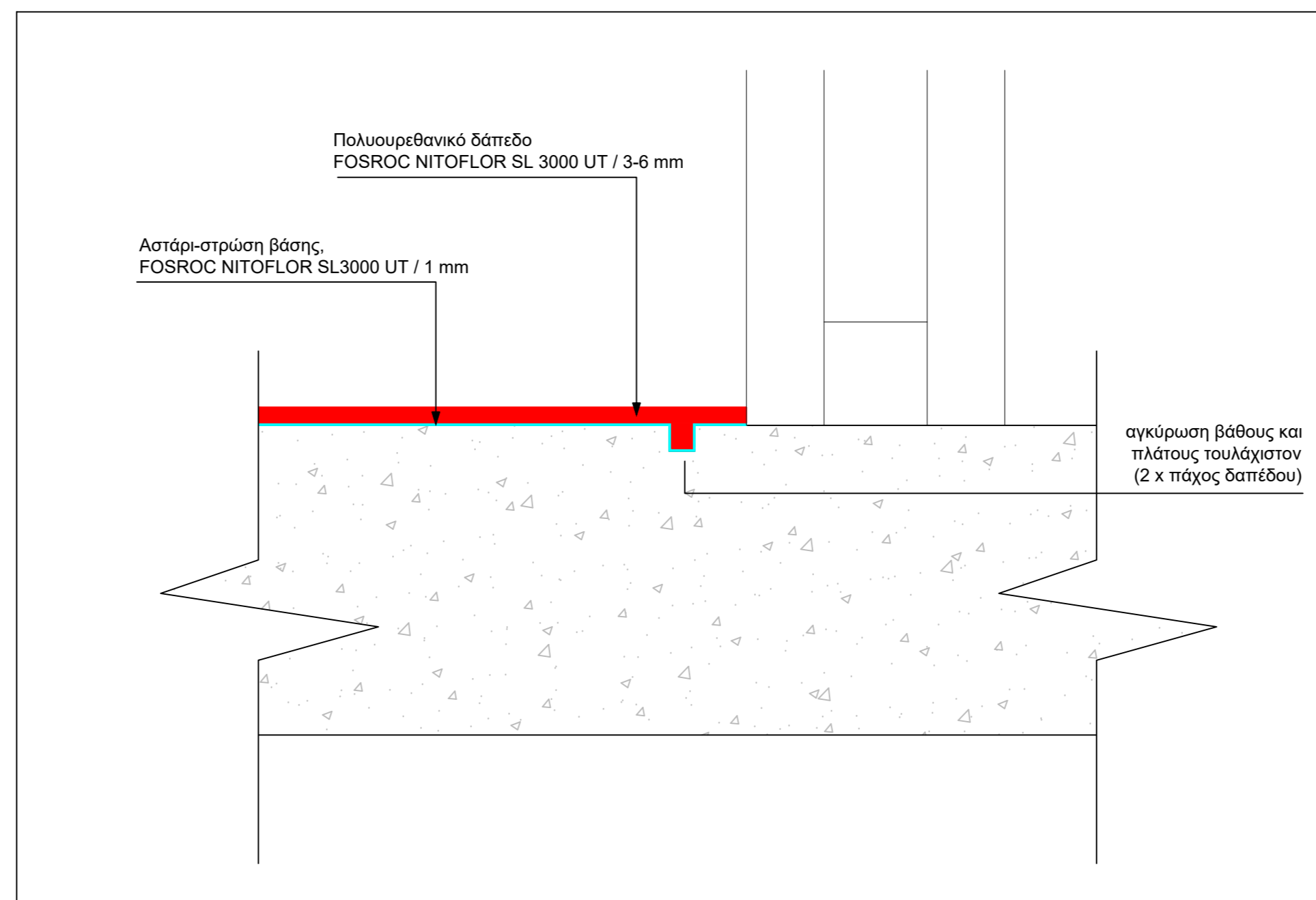
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 02

ΠΟΛΥΟΥΡΕΘΑΝΙΚΟ ΔΑΠΕΔΟ ΣΕ ΣΗΜΕΙΟ ΑΡΜΟΥ ΔΙΑΣΤΟΛΗΣ



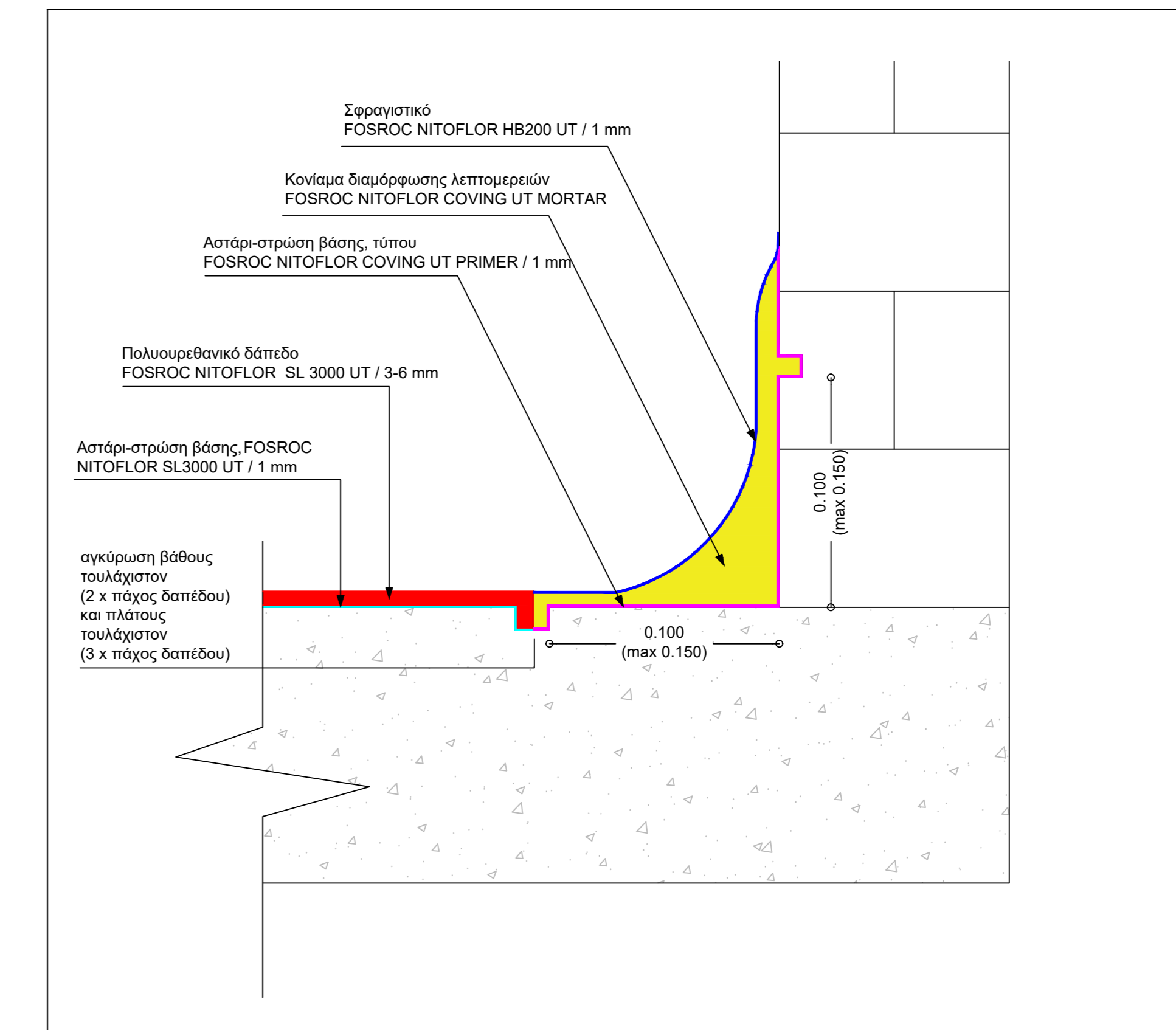
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 03

ΤΕΛΕΙΩΜΑ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ



ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 04

ΤΕΛΕΙΩΜΑ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ ΣΕ ΤΟΙΧΟ



PROJECT:
ΤΥΠΙΚΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ ΓΙΑ ΔΑΠΕΔΑ

ΘΕΜΑ ΣΧΕΔΙΟΥ:
ΚΑΤΑΣΚΕΥΑΣΤΙΚΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ

ΚΑΤΗΓΟΡΙΑ:
ΔΑΠΕΔΑ

FOSROC ΑΡΙΘΜΟΣ ΣΧΕΔΙΟΥ
ΚΛ1

ΙΟΥΛΙΟΣ 2023 ΚΛΙΜΑΚΑ: 1/2

ΠΑΡΑΤΗΡΗΣΕΙΣ

2.1. Επιφανειακή Προστασία Δαπέδου Πολύ Υψηλής Καταπόνησης με το Αυτοεπιπεδούμενο, Πολυουρεθανικό Κονίαμα Nitoflor RT6000 UT της Fosroc - Σύστημα 9,0 mm

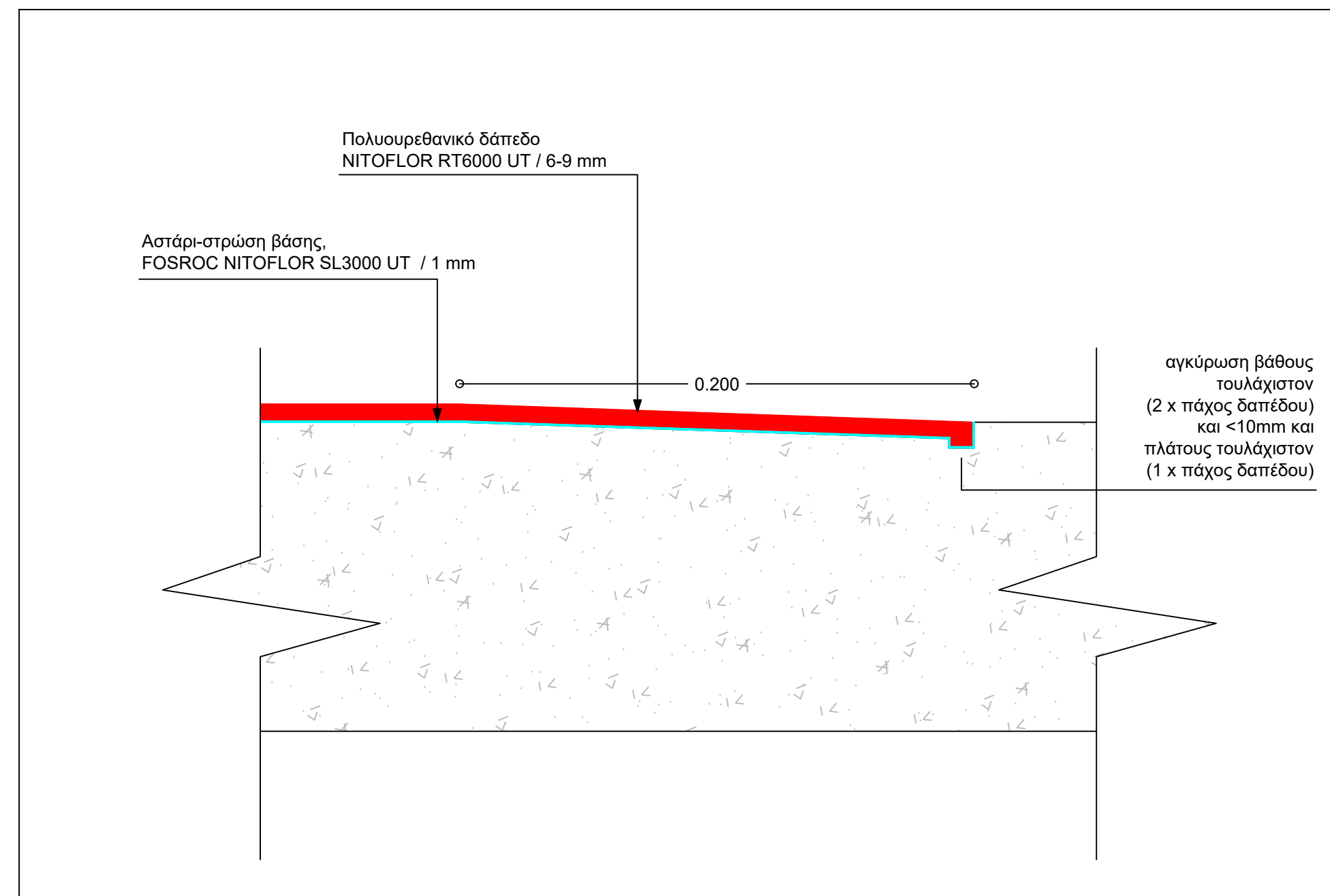
Για την επιφανειακή προστασία του δαπέδου, επιλέγεται η εφαρμογή του τριών συστατικών, πολυουρεθανικού κονιάματος **Nitoflor RT6000 UT** της **Fosroc**. Το υλικό θα φέρει σήμανση CE, θα συμμορφώνεται κατά EN 1504-2 (Μέθοδοι 1.3, 5.1 και 6.1), θα έχει θερμοκρασιακό εύρος λειτουργίας: -45 °C έως +90°C και θα είναι ανθεκτικό σε καθαρισμό με ατμό στους 120 °C. Το υπόστρωμα εφαρμογής του συστήματος θα είναι καθαρό, απαλλαγμένο από λάδια, σκόνες, σαθρά υλικά, αποφλοιωμένο σκυρόδεμα. Η εφελκυστική αντοχή του σκυροδέματος υποδοχής θα είναι >1,5 MPa. Θα προβλεφθεί η κατασκευή εσοχών/αρμών αγκύρωσης του υλικού (anchorage grooves) διαστάσεων 10x10 (mm). Μετά την προετοιμασία του υποστρώματος θα ακολουθήσει η εφαρμογή της στρώσης ασταρώματος με τη χρήση του **Nitoflor SL3000 UT**. Η ανάμιξη του υλικού θα λάβει χώρα σε δύο φάσεις. Αρχικά θα πραγματοποιηθεί ανάμιξη της βάσης και του σκληρυντή του υλικού με αργόστροφο, μηχανικό αναδευτήρα έως την παραγωγή ομοιόμορφου μίγματος και στη συνέχεια θα ακολουθήσει η εισαγωγή του Γ συστατικού (filler) ταυτόχρονα με την ανάμιξη, έως την παραγωγή ομοιόμορφου μίγματος χωρίς συσσωματώματα. Αμέσως μετά θα ακολουθήσει η εφαρμογή του υλικού με μεταλλική σπάτουλα εντός του χρόνου εργασιμότητας του υλικού, έτσι όπως ορίζεται στο τεχνικό του φυλλάδιο (15-20 λεπτά στους 30 °C). Το ιδανικό θερμοκρασιακό εύρος υποστρώματος, υλικού και ατμοσφαιρικού αέρα κατά την εφαρμογή είναι: +15 °C έως +30 °C. Ο ελάχιστος χρόνος αναμονής μεταξύ της εφαρμογής της στρώσης ασταρώματος και της τελικής επίστρωσης (στους 20 °C) θα υπολογίζεται ίσος με 12-48 ώρες. Μετά την ολοκλήρωση του παραπάνω βήματος θα ακολουθήσει η εφαρμογή της τελικής επίστρωσης με τη χρήση του **Nitoflor RT6000 UT**. Η ανάμιξη του υλικού θα πραγματοποιηθεί έτσι όπως έχει περιγραφεί παραπάνω και η εφαρμογή του υλικού θα πραγματοποιηθεί με χρήση οδοντωτής σπάτουλας, μυστριού ή/και πήχεως. Μετά την ολοκλήρωση του παραπάνω βήματος θα πρέπει να προβλεφθεί η προστασία του δαπέδου από υγρασία, συμπύκνωση και νερό για ελάχιστο χρονικό διάστημα 4 ημερών. Ο χρόνος αναμονής για την παραλαβή κυκλοφοριακού φόρτου πεζών θα υπολογίζεται ίσος με 8 ώρες, για την παραλαβή φόρτου ελαφρών τροχήλατων ίσος με 24 ώρες, για την παραλαβή κυκλοφοριακού φόρτου βαρέως τύπου 48 ώρες και για την πλήρη ανάπτυξη χημικής αντοχής 7 ημέρες.

Παρακάτω παρατίθεται το σύστημα ανάπτυξης:

Nitoflor RT6000 UT / 9,0 mm		
ΕΦΑΡΜΟΓΗ	ΥΛΙΚΟ	ΚΑΤΑΝΑΛΩΣΗ
Ασταρώμα	Nitoflor SL3000 UT	2,0 kg/m ²
Τελική επίστρωση	Nitoflor RT6000 UT	18,0 kg/m ²

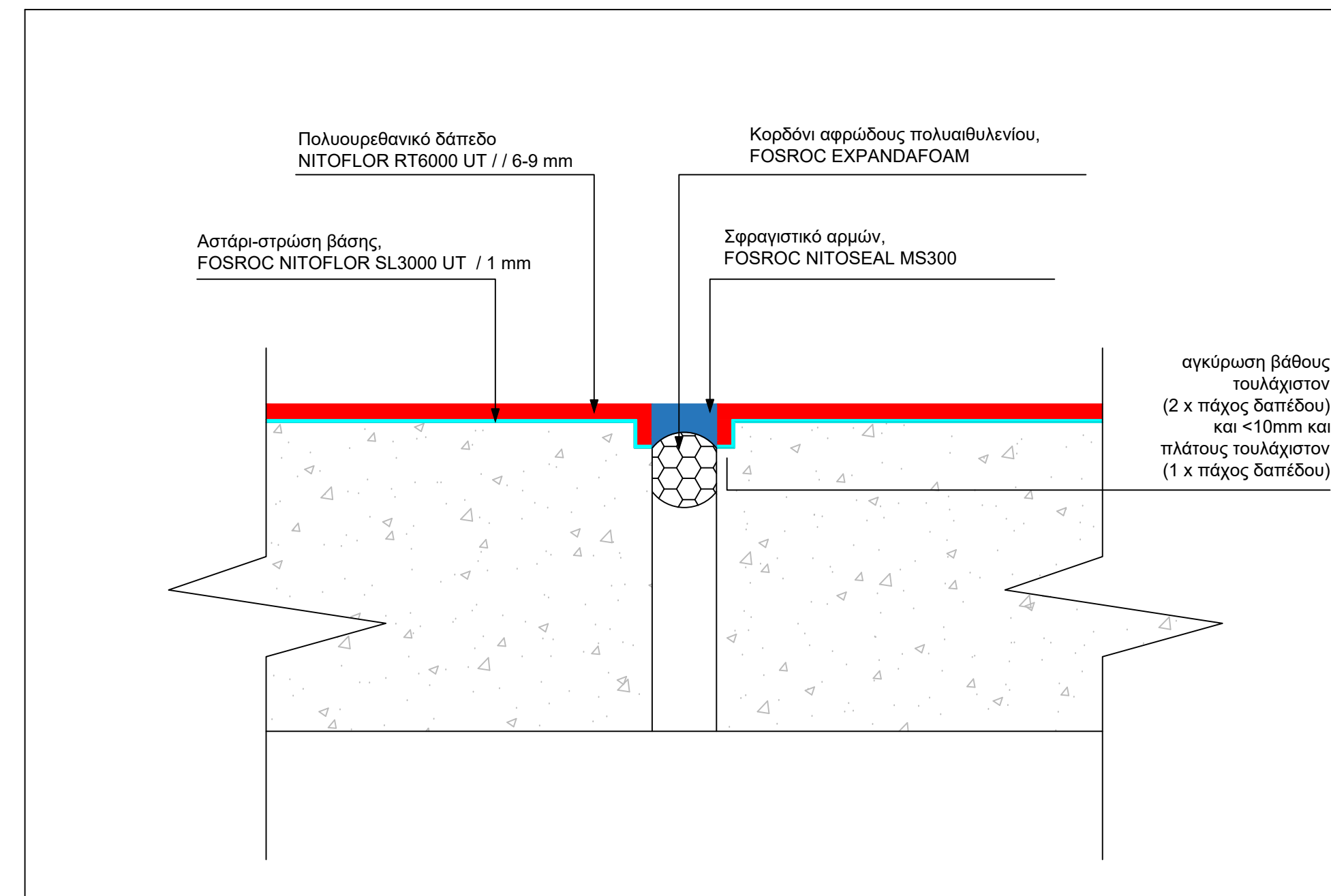
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 01

ΤΕΛΕΙΩΜΑ ΑΝΤΙΟΛΙΣΘΗΡΟΥ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ ΣΕ ΕΠΑΦΗ ΜΕ ΑΛΛΟ ΔΑΠΕΔΟ



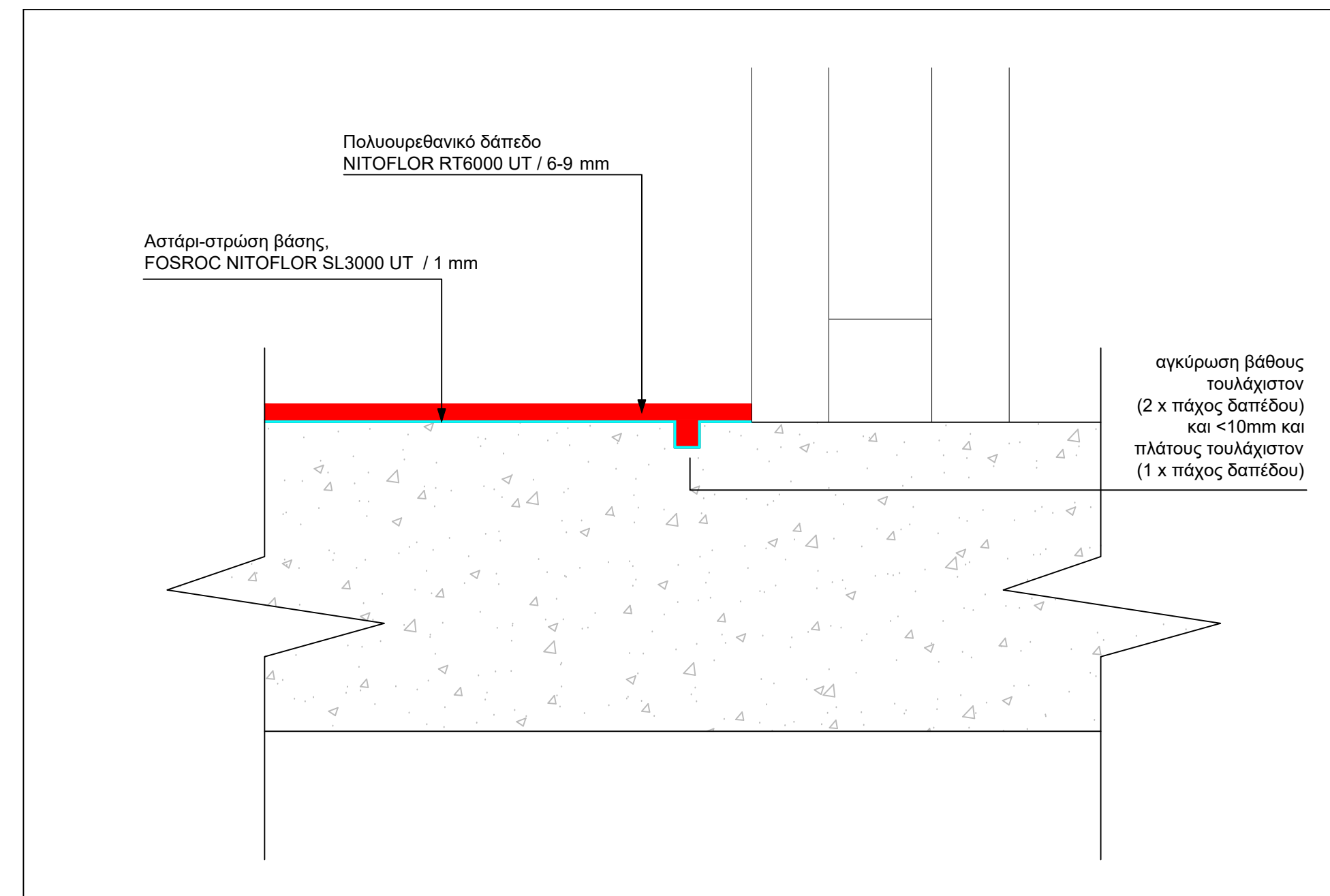
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 02

ΑΝΤΙΟΛΙΣΘΗΡΟ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟ ΔΑΠΕΔΟ ΣΕ ΣΗΜΕΙΟ ΑΡΜΟΥ ΔΙΑΣΤΟΛΗΣ



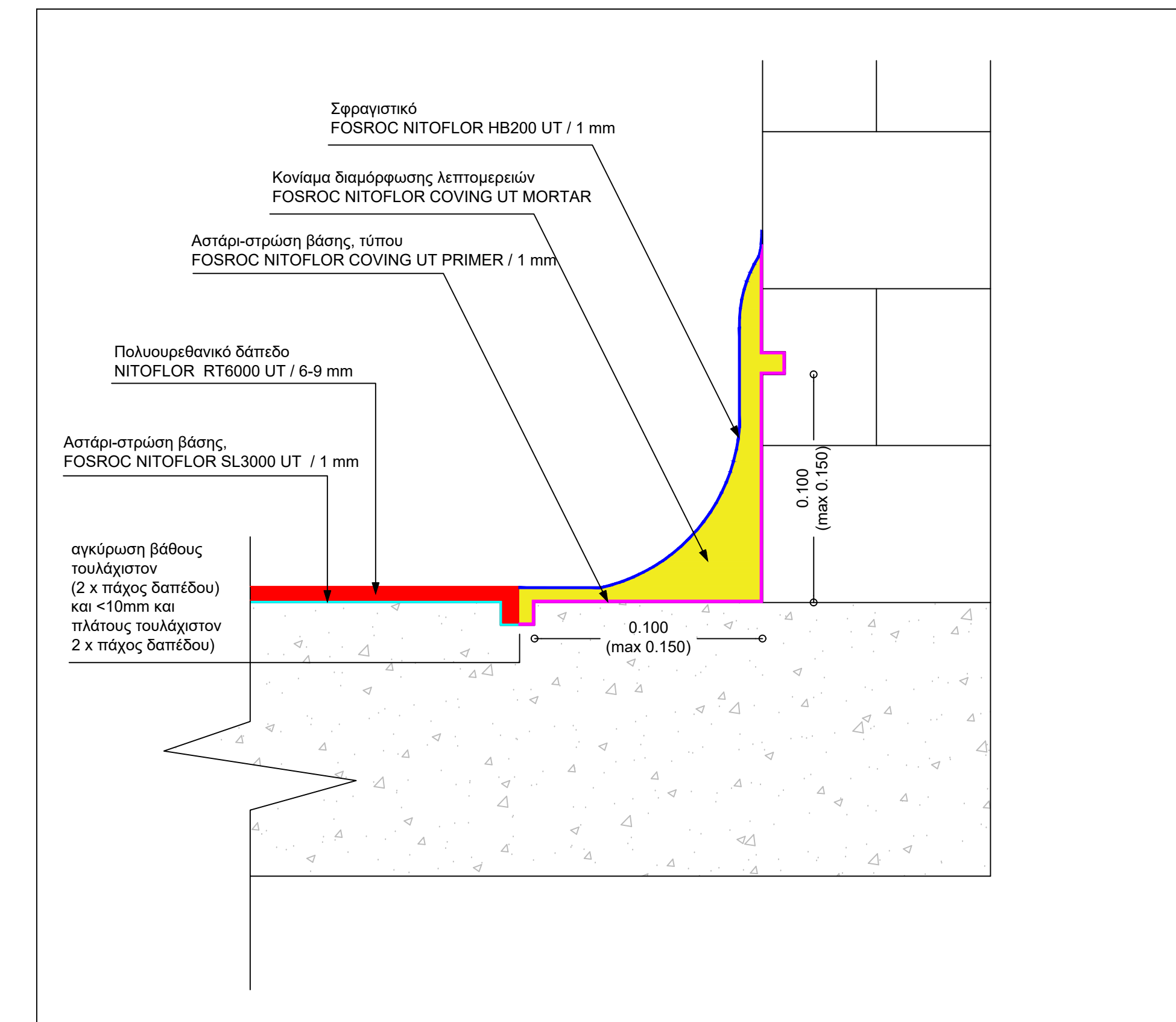
ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 03

ΤΕΛΕΙΩΜΑ ΑΝΤΙΟΛΙΣΘΗΡΟΥ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ



ΚΑΤΑΣΚΕΥΑΣΤΙΚΗ ΛΕΠΤΟΜΕΡΕΙΑ 04

ΤΕΛΕΙΩΜΑ ΑΝΤΙΟΛΙΣΘΗΡΟΥ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ ΣΕ ΤΟΙΧΟ



PROJECT:
ΤΥΠΙΚΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ ΓΙΑ ΔΑΠΕΔΑ

ΘΕΜΑ ΣΧΕΔΙΟΥ:
ΚΑΤΑΣΚΕΥΑΣΤΙΚΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ ΑΝΤΙΟΛΙΣΘΗΡΟΥ ΠΟΛΥΟΥΡΕΘΑΝΙΚΟΥ ΔΑΠΕΔΟΥ

ΚΑΤΗΓΟΡΙΑ:
ΔΑΠΕΔΑ

FOSROC
ΑΡΙΘΜΟΣ ΣΧΕΔΙΟΥ
ΚΛ2

ΙΟΥΛΙΟΣ 2023
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ΠΑΡΑΤΗΡΗΣΕΙΣ



ΕΠΙΦΑΝΕΙΑΚΗ ΠΡΟΣΤΑΣΙΑ ΔΑΠΕΔΩΝ

ΤΕΧΝΙΚΑ ΦΥΛΛΑΔΙΑ



Nitoflor SL3000 UT



Flow applied medium to heavy duty cementitious polyurethane floor topping

Uses

Nitoflor SL3000 UT is a medium-heavy duty, flow applied cementitious polyurethane floor topping system designed with the highest order of durability to resist abrasion, chemical attack and other physical aggression.

Typical application areas include food and beverage production, dairy processing, pharmaceutical and engineering process areas.

Appearance

Smooth matt finish.

Advantages

- Easy to apply
- Odorless
- Easy to clean
- Hygienic
- Seamless
- High mechanical and chemical resistance

Thickness

3 – 6 mm

Chemical Resistance

Nitoflor SL3000 UT is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries, and engineering workshops. Good housekeeping practices should be employed. Please consult Fosroc for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not necessarily affect the product service integrity or durability.

Substrates

Concrete, polymer modified screeds, grano concrete.

Typical Properties

BS 8204-6 (3-4mm)	Type 5 Floor (medium load)
BS 8204-6 (4-6mm)	Type 7 Floor (heavy load)
Compressive Strength, 28 days	
ASTM C109	50.8 MPa
BS 6319-2	54 MPa
Tensile Strength	
BS 6319-7	6.8 MPa
Flexural Strength	
BS 6319-3	17.9 MPa
Density (ASTM D792)	1968 kg/m ³
Dynamic Elastic Modulus	
ASTM C597	6266 MPa
Flexural Modulus	
ASTM C580	3295 MPa
Taber Abrasion Resistance (ASTM D4060)	
H 22	103 mg/ 1000 cycle
CS 17	125 mg/ 1000 cycle
Water absorption (ASTM C413)	% 0.06
Thermal Expansion Coefficient (BS EN1770)	$5.6 \times 10^{-5} / ^\circ\text{C}$
Impact Resistance (ASTM D 2794)	
3 mm thickness	8.1 J
6 mm thickness	10.8 J
Thermal Conductivity (Thermtest TPS method)	1.1 W/m.K
Slip Resistance (ASTM E303) Dry, S 96	32 (moderate slip risk)
Reaction To Fire Flame Spread Classification	Class 2
Cleanability	Pass
Non-taint property (IS-8639, 24 hours)	Pass
Service Temperature	
3-4 mm	-5°C to +60°C
5-6 mm	-10°C to +70°C
Ideal application temperature	15°C - 30°C

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions. The slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Nitoflor SL3000 UT has a smooth finish so can be expected to become slippery when wet. Good housekeeping practices must be observed.

Nitoflor SL3000 UT

Cure Schedule at 30°C

Working life	
Nitoflor SL3000 UT	15-20 minutes

Note: Usable working life of material following mixing and immediate spreading as per the application instructions

Finished floor	
Cure time to light pedestrian traffic	12 hours
Cure time to light wheeled traffic	24 hours
Cure time to medium duty traffic	48 hours
Cure time to heavy duty traffic	7 days
Full chemical resistance	7 days

Note: The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Instructions for use

Nitoflor SL3000 UT should be installed by specialist applicators, who must follow the procedures laid down in guideline documents such as BS 8204 Part 6:2008 Code of practice – Synthetic Resin Floorings, and the Fosroc Method Statement - PU Cementitious Flooring.

Application Conditions

Ideal ambient, material and substrate temperature range is 15°C - 30°C to achieve best results. The product components should be stored in a cool area (or warm area in the case of low ambient temperature), using localised forced cooling or heating equipment as appropriate, in order to bring product temperature within the ideal range. The product can be applied outside this ideal temperature range (subject to a minimum of 10°C and maximum of 34°C) however the surface finish may be subject to spike roller marks. In these cases physical properties and durability of the floor are not affected.

The substrate and applied floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after application of Nitoflor SL3000 UT.

Surface Preparation

Inadequate preparation may lead to loss of adhesion and failure. With flow-applied systems, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light vacuum-contained shot-blasting is therefore preferred over planing for these systems. Percussive scabbling or acid etching is not recommended.

Anchorage grooves should be cut to a minimum depth and width of 2x the flooring thickness to be laid, at the edges, day joints, up-stands, drains, doorways and at regular points across the floor, and all debris removed.

New Concrete Floors

Concrete grade must be minimum C30 according to BS 8500-2: 2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

The laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot-blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment.

For concrete bases in contact with the ground, a damp-proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code Of Practice For The Protection Of Buildings Against Water From The Ground).

Old Concrete Floors

All laitance and surface contamination should be removed by mechanical means such as shot-blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum. Heavy oil or grease deposits should be removed either mechanically, or by steam cleaning, or by biological treatment, then by high pressure water blasting followed by the application of a penetrating primer. Where oil or grease contamination has been severe or of long duration, these methods may prove unsatisfactory and in these cases removal of the affected base is necessary.

In existing buildings without a functioning damp-proof membrane, the application of a surface-applied membrane should be considered. Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided, e.g. by direct drainage.

A close visual examination should be made to verify cleanliness and soundness. Any weak or suspect areas should be repaired.

Nitoflor SL3000 UT

Application Instructions

Priming/ Scratch Coating

Nitoflor SL3000 UT should be applied as a primer/scratch coat at a coverage rate of up to a nominal 1 mm thickness; actual coverage rate will depend on concrete surface texture and porosity. This scratch coat is designed to prime and seal the floor. Mix (see Application below) and spread evenly by trowel. The scratch coat should be allowed to cure for 12 - 48 hours at 20°C before applying the Nitoflor SL3000 UT. If the scratch coat has been allowed to cure for >48 hours then the coat must be thoroughly abraded and a fresh layer of scratch coat applied. If severe pin-holing is evident in the cured scratch coat, indicating that air is rising from the substrate, then remedial action should be taken. Contact your local Fosroc office for advice. Failure to do so may result in increased risk of pin-holing of the surface topping.

Application of Nitofl or SL3000 UT topping

Nitoflor SL3000 UT is a three-component product. A forced-action rotary paddle mixer is recommended for mixing the product. Drain the contents of the liquid base and liquid hardener components into a large plastic container and mix briefly. Load the coloured aggregate component whilst mixing, and continue mixing for at least 1 minute, until a lumpfree mix is obtained, including a scrape down if necessary.

Immediately discharge and spread the mix over the application area, using a notched trowel to achieve the required coverage rate. De-aerate using a spiked roller. Spike rolling should be carried out within 10 minutes of application in order to avoid interfering with flow and surface finish. Ensure that anchorage grooves are fully wetted out with material. Do not return to spike roll older applied areas as the product is fast-setting and this action will leave spoiling marks on the applied floor.

The finished floor should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used. Protect the installed floor from damp, condensation and water for at least 4 days.

Supply	
Nitoflor SL3000 UT	20,25 kg packs
Coverage	
Primer / Scratch coat	2 kg/m ²
Floor topping	
3 mm thickness	6 kg/m ²
4 mm thickness	8 kg/m ²
6 mm thickness	12 kg/m ²

Note: Coverage figures given are theoretical. Actual site practical coverage figures may vary, due to wastage factors and the type and condition of the substrate.

Cleaning

Regular cleaning is essential to maintain and enhance the life expectancy, slip resistance and appearance of the floor. Nitoflor SL3000 UT can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

Health and Safety

Nitoflor SL3000 UT should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Storage and Shelf Life

Nitoflor SL3000 UT has a shelf life of 12 months (6 months for the Aggregate component) if stored off the ground in unopened packs in a covered dry store at 10 - 30°C. Storage outside this temperature range or repeated fluctuations in storage temperature can reduce the storage life. Protect from frost.

Fire

Nitoflor SL3000 UT is non-flammable.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be within the tack-free period, >90% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be, <10°C during the application or within the tack-free period.

The design strength of concrete surfaces must be a minimum of 25MPa compressive strength at 28 days.

The manufacture of Nitoflor SL3000 UT is a batch process and despite close manufacturing tolerances, colour variation may occur between batches.

Nitoflor SL3000 UT

Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Nitoflor SL3000 UT has a smooth finish so can be expected to become slippery when wet. Good housekeeping practices must be observed.

Application can take place outside the ideal temperature range of 15°C - 30°C, subject to a minimum of 10°C and a maximum of 34°C, however the surface finish may be subject to e.g. trowel and/or spike roller marks.

Nitoflor SL3000 UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's in-service performance or chemical resistance characteristics.

Note

The information contained in this document, and all further technical advice given, is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights.

In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

Technical Advice

For further information on this or any other Fosroc product, please contact your local Fosroc office.

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office

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† See separate data sheet



Important Note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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Nitoflor RT6000 UT



Trowel applied heavy duty polyurethane floor screed

Description

Fosroc Nitoflor RT6000 UT is a heavy duty, trowel applied polyurethane floor screed designed with the highest order of durability to resist impact, abrasion, chemical attack and other physical aggression. Its lightly textured finish makes the product ideal for both wet and dry processing environments.

Fosroc Nitoflor RT6000 UT is a four-component product, comprising base, hardener, coloured aggregate and a second aggregate.

Appearance

Seamless, matt surface with a light, slip resistant texture. Nitoflor RT6000 UT contains a white aggregate which imparts a slip resistant profile to the finished floor. When first installed, the floor has a uniform coloured surface. However, with general use, the white aggregate will begin to show through giving a decorative, mottled appearance.

Advantages

- Stable to steam cleaning and hot water exposure at a thickness of 9mm
- Very high chemical resistance
- Suitable for cold storage and freezer rooms
- Non tainting
- Seamless
- High abrasion resistance
- Slip resistant

Thickness

6 – 9 mm

Non Taint

Nitoflor RT6000 UT is water-based and non-tainting.

Substrates

Concrete, polymer modified screeds, grano concrete.

Temperature Resistance

When applied at 9mm thickness, Nitoflor RT6000 UT is suitable for freezer rooms. At 9mm thickness and with the floor at normal ambient temperature, Nitoflor RT6000 UT is resistant to steam-cleaning process at 120°C using a moving lance. A sound substrate is required for such thermal shock exposure.

Properties

BS 8205-6	Type 8 Floor (heavy duty to very heavy duty)	
Compressive Strength at 28 days		
	BS 6319-2	56 MPa
Tensile Strength		
	BS 6319-7	5.7 MPa
Flexural Strength		
	BS 6319-3	13.9 MPa
Service temperature		
	6 mm	-15°C to +70°C
	9 mm	-45°C to +90°C
Ideal application temperature		+15°C - +30°C

Chemical Resistance

Nitoflor RT6000 UT is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol).

Nitoflor RT6000 UT is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult Fosroc for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product service integrity or durability.

Nitoflor RT6000 UT

Cure Schedule at 30°C

Working life of full packs *:	
Nitoflor SL3000 UT	15-20 minutes
Nitoflor RT6000 UT	15-20 minutes

Note: Usable working life of material following mixing and immediate spreading as per the application instructions

Finished floor	
Cure time to light pedestrian traffic	8 hours
Cure time to light wheeled traffic	24 hours
Cure time to heavy duty traffic	48 hours
Full chemical resistance	7 days

Note: The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Application Conditions

Ideal ambient, material and substrate temperature range is +15°C - +30°C to achieve best results. The product components should be stored in a cool area (or warm area in the case of low ambient temperature), using localised forced cooling or heating equipment as appropriate, in order to bring product temperature within the ideal range. The product can be applied outside this ideal temperature range (subject to a minimum of 10°C and maximum of 34°C) however the surface finish may be subject to trowel marks. In these cases physical properties and durability of the floor are not affected.

The substrate and applied floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after the application of Nitoflor RT6000 UT.

Instructions for use

Nitoflor RT6000 UT should be installed by specialist applicators, who must follow the procedures laid down in guideline documents such as BS 8024 Part 6:2008 Code of practice – Synthetic Resin Floorings, and the Fosroc Method Statement - PU Cementitious Flooring.

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings or flow-applied systems, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light vacuum-contained shot blasting is therefore preferred over planing for these systems. Percussive scabbling or acid etching is not recommended.

Anchorage grooves should be cut to a minimum of twice the thickness to be laid, up to a maximum of 10 mm and at least equal in width to the thickness of material to be laid, at the edges, day joints, up-stands, drains, doorways and at regular points across the floor, and all debris removed.

New concrete floors

The base should be a minimum of Grade RC30 of BS 8500-2: 2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

The laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment.

For concrete bases in contact with the ground, a damp proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code Of Practice For Protection Of Buildings Against Water From The Ground).

Old concrete floors

All laitance and surface contamination, e.g. oil, paint and rubber, should be removed by mechanical means such as shot-blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment. Heavy oil or grease deposits should first be removed either mechanically, by steam cleaning, or by biological treatment, then by high pressure water blasting followed by the application of a penetrating primer. Where oil or grease contamination has been severe or of long duration, none of these methods may prove satisfactory and in these cases removal of the affected base would be necessary.

In existing buildings without a functioning damp-proof membrane, the application of a surface-applied membrane should be considered. Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided e.g. by direct drainage.

A close visual examination should be made to verify cleanliness and soundness. Any weak or suspect areas should be repaired.

Nitoflor RT6000 UT

Application Instructions

Priming / Scratch Coat

Nitoflor SL3000 UT should be applied as a primer/ scratch coat at a coverage rate of up to a nominal 1 mm thickness; actual coverage rate will depend on concrete surface texture and porosity. This scratch coat is designed to prime and seal the floor.

Fosroc Nitoflor SL3000 UT is a three-component product. A slow-speed forced action helical or twin-paddle mixer is recommended for mixing the product. Drain the contents of the liquid base and liquid hardener components into a large plastic container and mix briefly. Load the coloured aggregate component whilst mixing, and continue mixing for at least 1 minute, until a lump-free mix is obtained, including a scrape down if necessary.

Immediately discharge and spread the mix over the application area evenly by trowel, ensuring that anchorage grooves are fully wetted out. The scratch coat should be allowed to cure for 12 - 48 hours at 20°C before applying the Nitoflor RT6000 UT. If the scratch coat has been allowed to cure for >48 hours then the coat must be thoroughly abraded and a fresh layer of scratch coat applied.

If severe pin-holing is evident in the scratch coat, indicating that air is rising from the substrate, then remedial action should be taken. Contact your local Fosroc office for advice. Failure to do so may result in increased risk of pin-holing of the surface topping.

Application of Nitoflor RT6000 UT

A rotary drum mixer is required. Drain the contents of the liquid base and liquid hardener components into the mixer container and mix briefly. Load the two aggregate components whilst mixing, and continue mixing for at least 1 minute, until a lump-free mix is obtained, including a scrape down if necessary.

Apply to primed areas to the required thickness using a steel float. Ensure that anchorage grooves are fully wetted out with material. The cured product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used. Protect the installed floor from damp, condensation and water for at least 4 days.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor RT6000 UT can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

When applied at 9mm thickness, Fosroc Nitoflor RT6000 UT is steam cleanable using a moving lance.

Supply	
Nitoflor SL3000 UT	33,5 kg packs
Nitoflor RT6000 UT (Consist of Nitoflor SL3000 UT (33,5 Kg) and Nitoflor RT6000 UT Part D (26,5 Kg))	60 kg packs
Coverage	
Nitoflor SL3000 UT (primer/ scratch coat)	2 kg/m ²
Nitoflor RT6000 UT (Kaplama)	
6 mm thickness	12-14 kg/m ²
9 mm thickness	18-20 kg/m ²

Note: Coverage figures given are theoretical. Actual site practical coverage figures may vary, due to wastage factors and the type and condition of the substrate.

Colours

Fosroc Nitoflor RT6000 UT is available in a range of standard Fosroc colours. Fosroc Nitoflor RT6000 UT may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Health and Safety

Fosroc Nitoflor SL3000 UT and Nitoflor RT6000 UT should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. Refer to Product Safety Data Sheets for further information.

Fire

Nitoflor SL3000 UT and Fosroc Nitoflor RT6000 UT are non-flammable.

Nitoflor RT6000 UT

Storage and Shelf life

Fosroc Nitoflor SL3000 UT and Fosroc Nitoflor RT6000 UT have a shelf life of 12 months (6 months for the coloured aggregate component) if stored off the ground in unopened packs in a dry store under cover at temperature between 10°C and 30°C. Storage outside this range, or repeated fluctuations in storage temperature, can reduce the storage life. Protect from frost.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >90% or if the surface temperature is <3°C above the dew point.

Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be, <5°C during the application or within the tack-free period.

Application can take place outside the ideal temperature range of 15 - 30°C, subject to a minimum of 10°C and a maximum of 34°C, however the surface finish may be subject to trowel marks.

The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

The manufacture of Fosroc Nitoflor RT6000 UT is a batch process and despite close manufacturing tolerances, colour variation may occur between batches.

Fosroc Nitoflor RT6000 UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Technical Advice

For further information on this or any other Fosroc product, please contact your local Fosroc office.

Note

The information contained in this document, and all further technical advice given, is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights.

In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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Important Note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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Fosroc Nitoflor Coving UT

Trowel applied polyurethane coving mortar

Description

Fosroc Nitoflor Coving UT is a three-component trowel applied coving mortar. To be used in conjunction with Fosroc Nitoflor HB200 UT, a polyurethane based sealer system.

Typical application areas include industries where hygiene is a priority, particularly areas with a regular cleaning regime, notably: food and beverage production; dairy processing; pharmaceutical; and engineering process areas.

Appearance

Matt surface with a lightly coloured finish

Advantages

- Easy to clean
- Non tainting
- Seamless
- Maintains the integrity of the floor system

Thickness

3 – 9 mm

Non Taint

Nitoflor Coving UT is water based and non tainting.

Chemical Resistance

Fosroc Nitoflor Coving UT, when cured, must be coated with the appropriate colour of Fosroc Nitoflor HB200 UT. Nitoflor Coving UT sealed with Nitoflor HB200 UT is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol). Nitoflor Coving UT sealed with Nitoflor HB200 UT is also resistant to a range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult Fosroc for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product service integrity or durability. See separate data sheet for Fosroc Nitoflor HB200 UT.

Substrates

Concrete, polymer modified screeds, grano concrete.

Typical Properties, 28 days at 20°C

Compressive Strength, ASTM C579, MPa	52
Tensile Strength, ASTM C307, MPa	5
Flexural Strength, BS6319-3, MPa	6
Pull Off Adhesion	> Concrete
Service Temperature 9mm	-45°C to +120°C
Application temperature range	+15 to +30 °C

Cure Schedule at 30°C

Working life of full packs *:

Nitoflor Coving UT	15 minutes
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* Usable working life of material following mixing and immediate spreading as per the application instructions

Finished system:

Cure time to light pedestrian traffic	8 hours
Cure time to light wheeled traffic	24 hours
Cure time to heavy duty traffic	48 hours
Full chemical resistance	7 days

Note: The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Application Conditions

Ideal ambient and substrate temperature range is 15-30°C to achieve best results. Localised heating or cooling equipment may be required outside this range, to achieve the ideal temperature condition. The product can be applied outside this ideal temperature range (subject to a minimum of 10°C and maximum of 34°C) but this can be expected to have a negative effect on surface finish. The components or pack to be stored in a cool, dry, shaded area preferably controlled at 20-25°C in order to control product temperature, working life and return to service.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after the application of Nitoflor Coving UT.

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. Smooth polished prepared substrates offer limited key so a slightly profiled finish achieved by grinding, vacuum-contained shot-blasting or light scabbling is therefore preferred.

Percussive scabbling or acid etching is not recommend

Fosroc Nitoflor Coving UT

New concrete floors

The base should be a minimum of Grade RC30 of BS 8500-2: 2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

The laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot-blasting, grinding or light scabbling to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment.

For concrete bases in contact with the ground, a damp-proof membrane should have been incorporated into the slab design, in accordance with the requirements of CP102 (Code Of Practice For Protection Of Buildings Against Water From The Ground).

Old concrete floors

All laitance and surface contamination, e.g. oil, paint and rubber, should be removed by mechanical means such as shot-blasting, grinding or light scabbling to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment. Heavy oil or grease deposits should first be removed either mechanically, by steam cleaning, or by biological treatment, then by high pressure water blasting followed by the application of a penetrating primer. Where oil or grease contamination has been severe or of long duration, none of these methods may prove satisfactory and in these cases removal of the affected base would be necessary.

In existing buildings without a functioning damp-proof membrane, the application of a surface-applied membrane should be considered. Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided e.g. by direct drainage.

A close visual examination should be made to verify cleanliness and soundness. Any weak or suspect areas must be repaired.

Application Instructions

Priming

Priming is carried out using a mix of Base, Part A and Hardener, Part B only. Thoroughly drain the contents of the hardener component into the base component and mix for a minimum of 1 minute to give a homogeneous mix. Apply by roller or brush and spread uniformly at the rate of approximately 5m²/1kg set depending on the substrate. Nitoflor Coving UT must be applied wet to wet onto the primed surface before the primer is cured.

Application of Nitoflor Coving UT

Fosroc Nitoflor Coving UT is a three-component product. Thoroughly drain the contents of the hardener component into the coloured base component and mix for a minimum of 1 minute or to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the filler component loaded and mixed in stages, then mix for three minutes or until a lump-free mix is obtained. Compaction is best achieved through a coving trowel. Finish using a steel float and coving trowel.

Estimating

Supply

Nitoflor Coving UT	12 kg packs
Part A (base):	1kg
Part B (hardener):	1kg
Filler:	10kg

Coverage

Nitoflor Coving UT 1.8 – 2.0 kg/m²/mm thickness

Based on a 75 mm standard cove, 14kg will cover 4lin.m

Note: Coverage figures are a guide. Actual site figures may vary, due to wastage and the type of substrate used.

Colours

Fosroc Nitoflor Coving UT is available in a single, neutral colour. The appropriate colour is achieved by sealing with Nitoflor HB200 UT, see separate TDS.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor Coving UT coated with Nitoflor HB200 UT can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.



Fosroc Nitoflor Coving UT

Health and Safety

Fosroc Nitoflor Coving UT should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. Refer to Product Safety Data Sheets for further information.

Fire

Fosroc Nitoflor Coving UT is non-flammable.

Storage, Mixing & Application

Fosroc Nitoflor Coving UT has a shelf life of 12 months if stored off the ground in unopened packs in a dry store under cover at temperature between 10°C and 30°C. Storage outside this range, or repeated fluctuations in storage temperature, can reduce the storage life. Protect from frost.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <5°C above the dew point.

Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be, <5°C during the application or within the tack-free period.

The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

Nitoflor Coving UT is supplied in a single, neutral colour and must be coated with the appropriate colour of Nitoflor HB200 UT, see separate data sheet. Should it be exposed, Nitoflor Coving UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted.

Technical Advice

For further information on this or any other Fosroc product, please contact your local Fosroc office.

Note

The information contained in this document, and all further technical advice given, is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights.

In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.**

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EG/0993/20/A

High-build polyurethane coating

Description

Fosroc Nitoflor HB200 UT is a three-part polyurethane coating designed as a sealer for Fosroc Nitoflor Coving UT mortar.

Appearance

Matt surface with a mottled finish

Non Taint

Fosroc Nitoflor Coving UT is water based and non-tainting

Chemical resistance

Fosroc Nitoflor HB200 UT is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols. Nitoflor HB200 UT is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed. Please consult Fosroc for further advice. Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This should not affect the product service integrity or durability

Application conditions

Application temperature range is 5-30°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, to at least 48 hours after application of Nitoflor HB200 UT.

Typical Properties, 28 days at 20°C

Compressive Strength, BS6319-2, MPa	70
Tensile Strength, BS6319-7, MPa	9
Flexural Strength, BS6319-3, MPa	22
Pull Off Adhesion	> Concrete
Taber abrasion resistance (ASTM D4060)	
H22 wheels, mg/1000 cycles	385
CS17 wheels, mg/1000 cycles	138
Water absorption (ASTM C413)%	0.13
Service Temperature	-45°C to +120°C
Application temperature range	+15 to +30 °C

Cure Schedule at 30°C

Working life of full packs *

Nitoflor HB200 UT	15 minutes
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*Usable working life of material following mixing and immediate spreading as per the application instructions

Finished coating:

Overcoating time	16-48 hours
Cure time to light traffic	24 hours
Cure time to heavy traffic	48 hours
Full cure	7 days

Note: The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions.

Application instructions

Fosroc Nitoflor HB200 UT is a three-component product. Thoroughly drain the contents of the hardener component into the coloured base component and mix for a minimum of 1 minute or until a homogeneous mix is obtained. Add the full contents of the aggregate bag slowly and mix for a further 1-2 minutes until a lump free consistency is obtained.

Apply using a medium nap roller directly from a paint tray or scuttle. Push the coating well into the surface, make sure it

Fosroc® Nitoflor HB200 UT

is fully wetted out then pull back to a tight coat with the roller. Inconsistent application thickness will result in an uneven finish and appearance. It is always preferable to apply two coats (using the coverage rate below) rather than one heavy coat.

Supply

Nitoflor HB200 UT	2.0 kg packs
Base, Part A	: 0.5 kg
Hardener, Part B	: 0.5 kg
Filler	: 1.0 kg

Coverage

Nitoflor HB200 UT	6.8 m ² per 2.0 kg pack per coat (WFT per coat ~200 microns)
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Note: Coverage figures given are theoretical. Actual site practical coverage figures may vary, due to wastage factors and the type and condition of the substrate.

Colours

Fosroc Nitoflor HB200 UT is available in a range of standard Fosroc colours. Nitoflor HB200 UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Fosroc Nitoflor HB200 UT can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information

Health & Safety

Fosroc Nitoflor HB200 UT should not come into contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

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additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. Refer to Product Safety Data Sheet for further information.

Fire

Fosroc Nitoflor HB200 UT is non-flammable.

Storage, Mixing & Application

Fosroc Nitoflor HB200 UT has a shelf life of 12 months if stored in unopened packs between 10°C and 30°C. Storage outside this range, or repeated fluctuations in storage temperature can reduce the storage life. Protect from frost.

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >90% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be, <5°C during the application or within the tack-free period.

The manufacture of Fosroc Nitoflor HB200 UT is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Fosroc recommends using Nitoflor HB200 UT from a single batch as the final finish in one area section.

Fosroc Nitoflor HB200 UT is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Technical Advice

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Fosroc® Nitoflor HB200 UT

Notes

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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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