

High Performance Urethane Floor Systems



X-Tech UraFloor TF
X-Tech UraFloor SL
X-Tech UraFloor CS
X-Tech UraFloor HT



X-CALLIBUR[®]

TECHNICAL FLOORING

X-Tech UraFloor TF

General purpose heavy duty polyurethane screed

Advantages

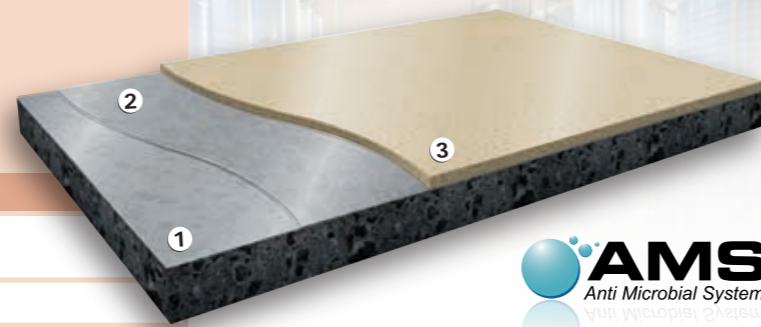
- Steam cleanable at thickness >9mm
- Durable
- Abrasion resistant
- Impact resistant
- Excellent slip resistance
- Resistant to a wide range of chemicals

Uses

- Food processing wet areas
- Wet food markets
- Breweries
- Dairies
- Chemical process plants
- Vehicle assembly plants
- Ships
- Workshops

Service Temperature

-15°C to +95°C



Typical System

1. X-Primer SF(100 microns) or X-Primer MT (150 microns)
2. X-Tech AntiSlip Grains (up to 1kg/m²)
3. X-Tech UraFloor TF (6 to 9mm)



X-Tech UraFloor CS

Heavy duty polyurethane screed for cold stores

Advantages

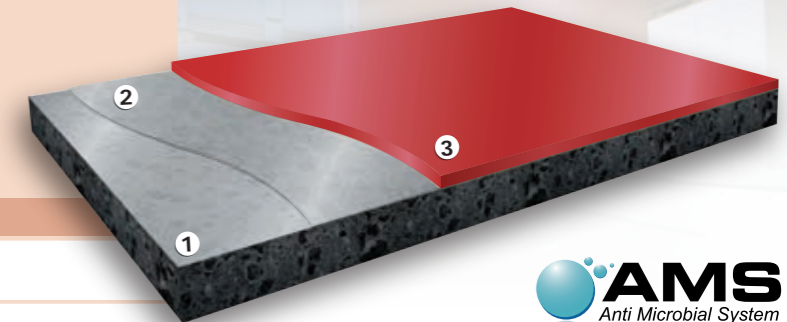
- Can be used at very low temperatures
- Can be used in blast freezers at a thickness of 12mm
- Durable
- Abrasion resistant
- Impact resistant
- Excellent slip resistance
- Resistant to a wide range of chemicals

Uses

- Fisheries
- Abbatoirs
- Canneries
- Cold stores
- Blast freezers
- Ship freezers
- Ice plants

Service Temperature

-45°C to +105°C



Typical System

1. X-Primer SF(100 microns) or X-Primer MT (150 microns)
2. X-Tech AntiSlip Grains (up to 1kg/m²)
3. X-Tech UraFloor CS (5 to 12mm) (Cold storage minimum 9mm)



X-Tech UraFloor SL

General purpose self leveling polyurethane screed

Advantages

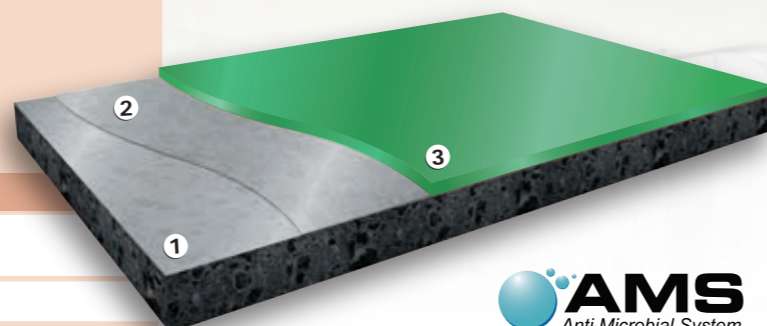
- Smooth seamless finish
- Durable
- Abrasion resistant
- Impact resistant
- Good slip resistance
- Resistant to a wide range of chemicals

Uses

- Dry food processing plants
- Clean rooms
- Aircraft hangers
- Pharmaceutical facilities
- Cool stores
- Hospitals
- Electronics manufacturing

Service Temperature

-5°C to +75°C



Typical System

1. X-Primer SF(100 microns) or X-Primer MT (150 microns)
2. X-Tech AntiSlip Grains (up to 1kg/m²)
3. X-Tech UraFloor SL (2 to 5mm)



X-Tech UraFloor HT

Heavy duty polyurethane screed for high temperature applications

Advantages

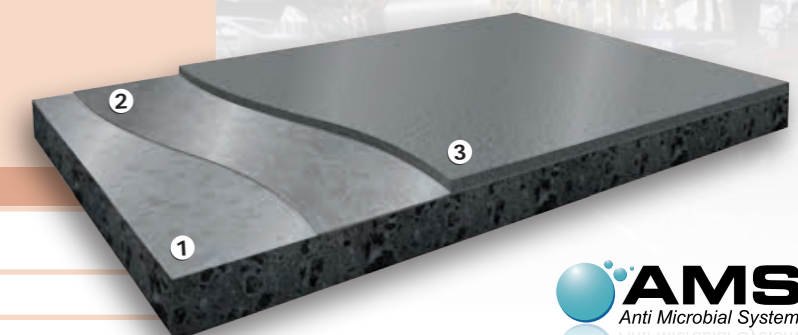
- Very high temperature resistance
- Steam cleanable at thickness >5mm
- Durable
- Abrasion resistant
- Impact resistant
- Excellent slip resistance (SF Grade)
- Resistant to a wide range of chemicals
- Available in semi-fluid (SF) and self levelling (SL) grades

Uses

- Fabrication workshops
- Aluminum smelters
- Steam generators
- Hot work areas
- Abbatoirs
- Kitchens

Service Temperature

-15°C to +120°C



Typical System

1. X-Primer SF(100 microns) or X-Primer MT (150 microns)
2. X-Tech AntiSlip Grains (up to 1kg/m²)
3. X-Tech UraFloor HT (3 to 7mm)



Laboratory Test Data

Property	X-Tech UraFloor TF	X-Tech UraFloor SL	X-Tech UraFloor CS	X-Tech UraFloor HT Scred
Compressive Strength (ASTM 0109)	>70 MPa	>60 MPa	>100 MPa	>100 MPa
Flexural Strength (EN 196)	>25 MPa	>25 MPa	>30 MPa	>30 MPa
Tensile Strength (ASTM D638)	>6 MPa	>10 MPa	>14 MPa	>6 MPa
Impact Resistance (ASTM D2794)	>10 Joules	>5 Joules	>10 Joules	>10 Joules
Abrasion Resistance (ASTM D4060) 1000g/1000r CS17	<50 mg	<100 mg	<50 mg	<50 mg
Adhesion to Concrete (ASTM D4541)	>2 MPa (CF)	>2 MPa (CF)	>2 MPa (CF)	>2 MPa (CF)
Slip Resistance (ASTM F609) dry/wet	1.24 / 1.22	0.63 / 0.60	0.99 / 0.80	1.00 / 0.85
Scrub Resistance (ASTM D2486)	>10,000 cycles	>10,000 cycles	>10,000 cycles	>10,000 cycles
Scratch Resistance BS3900 Part E2	No Failure 2.5kg Load	No Failure 2.5kg Load	No Failure 2.5kg Load	No Failure 2.5kg Load

CF = Bond failure in the concrete substrate

Drying & Cure Times at 20C/30C/40C

Drying & Cure Times	X-Tech UraFloor TF	X-Tech UraFloor SL	X-Tech UraFloor CS	X-Tech UraFloor HT
Usable Life (min)	60/40/20	80/50/30	75/45/25	60/40/20
Touch Dry (h)	16:08:04	12:06:03	16:08:04	12:06:03
Hard Dry (h)	48/24/16	48/24/16	48/24/16	48/24/16
Minimum Overcoating (h)	16:08:04	12:06:03	16:08:04	12:06:03
Maximum Overcoating (h)	48/24/16	48/24/16	48/24/16	48/24/16
Full Chemical Cure (d)	07:05:03	07:05:03	07:05:03	07:05:03

Chemical Resistance Guide

	X-Tech UraFloor TF	X-Tech UraFloor SL	X-Tech UraFloor CS	X-Tech UraFloor HT
Acetic Acid 10%	✓	✓	✓	✓
Acetone	✓	✓	✓	✓
Citric Acid 15%	✓	✓	✓	✓
Detergents	✓	✓	✓	✓
Hydrochloric Acid 10%	✓	✓	✓	✓
Oil	✓	✓	✓	✓
Petrol	✓	✓	✓	✓
Sodium Hydroxide (Caustic Soda)	✓	✓	✓	✓
Sodium Hypochlorite (Bleach)	✓	✓	✓	✓
Sugar Solutions	✓	✓	✓	✓
Sulphuric Acid 25%	✓	✓	✓	✓

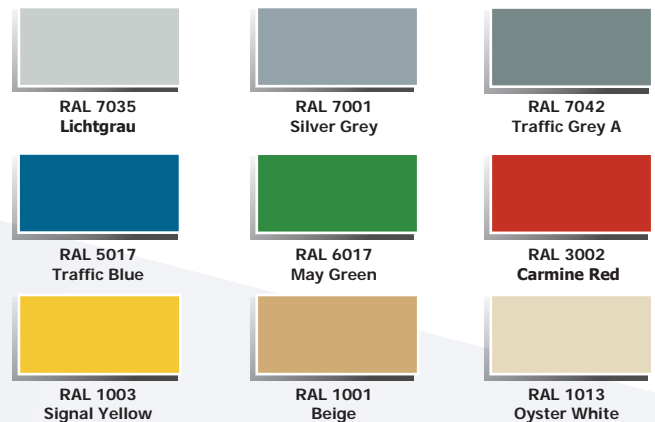
Bacteriostatic/Fungistatic Activity

The X-Tech UraFloor AMS system has been found to be effective in inhibiting the growth of the following microorganisms:



- Bacillus cereus
- Bacillus mycoides
- Bacillus subtilis
- Brevibacterium ammoniagenes
- Corynebacterium pseudodiphtheriticum
- Enterococcus faecalis
- Micrococcus luteus
- Staphylococcus aureus
- Streptococcus pyogenes
- Acinetobacter calcoaceticus
- Enterobacter aerogenes
- Escherichia coli
- Klebsiella pneumoniae
- Proteus vulgaris
- Salmonella typhimurium
- Trichophyton mentagrophytes

Standard Urethane Color Range



Many RAL colors can be supplied at no extra charge.

The lightest colors that can be supplied are RAL 1013 and RAL 7035 (see above).

Every effort is made to reproduce these RAL sample colors as faithfully as possible.

However, due to reproduction limitations, it is necessary that we reserve the right of reasonable variation.

Color will vary due to differences in surface texture, lightning and methods of application.

