POLYTHANE™ 230 CT

POLYURETHANE COATING PAINT

230 CT

PRODUCT DATA SHEET

DESCRIPTION

Polythane™ 230 CT is a 2 components aliphatic polyurethane coating paint with high performance for industrial use in resistant to sunlight and corrosive environment.

RECOMMENDED USES

- Industrial Floors
- Wet or dry floors
- Warehouses
- Food Processing Factories
- Coves Coating
- Gutters Coating
- Carpark
- Stadium

MAIN PROPERTIES

- Resistant to spillage or splashes of mild chemicals
- Resists bacterial growth, fungi, mould and mildew
- Seamless surface, easy to clean
- Food Grade
- Excellent flow and leveling properties
- UV Resistance

TECHNICAL PROPERTIES

Solid Content	57.1% by Vol.
Density (DIN EN ISO2811-1)	1.05
Tensile Strength (ASTM D412)	1.2
Abrasion Resistance(ASTM C944)	30 mg.
Hardness shore D (DIN53 505)	76
VOC (ASTM D2369)	54
Fire Classification in accordance with	Class O surface index I=2.0 (BS476)PART6 1989
Skid/Slip Resistance (BS7976-2:2002)	Dry Slider 96>63 Wet Slider 96>33
Tear Strength (ASTM D624(DieB))	80.3kN/m
Chemical Resistance (ASTM D1308-02(2013))	Gasoline - Not Change Disel Oil - Not Change
UV Resistance(ASTM G154-120)	336H Non Dusting

COLOR

- Light Gray (Close to RAL #7035 Light Gray)
- Medium Gray (Close to RAL #7040 Window Gray)
- Dark Gray (Close to RAL #7037 Dusty Gray)
- Yellow Cream (Close to RAL #1014 Ivory)
- Yellow Buff (Close to RAL #1002 Sand Yellow)
- Light Green (Close to RAL #6021 Pale Green)
- Dark Green (Close to RAL #6032 Signal Green)
- Blue (Close to RAL #5024 Pastel Blue)
- Red (Close to RAL #3001 Signal Red)
- White (Close to RAL #9003 Signal White)

SURFACE PREPARATION

- Concrete should have a mechanical strength of at least 210 KSC (cyl)
- Moisture contents in the concrete should be less than 5%.
- Surface preparation by grinding and primed with Rocaprime.

MIXING AND INSTALLATION

- Mix Part A:B = 6.7:1 with low speed electric mixer drill until obtaining an homogenou substance.
- Apply with paint roller in 2 crossed coats of 167g./m^2 each coat.

AVERAGE CONSUMPTION

- 167 g/m^2 per coat (total 2 coat)
- Small Set 12 m^2/set
- Large Set 60 m^2/set

TRAFFICABILITY

3 hours	Touch Dry
1 Day	Light Traffic
3 Days	Normal Traffic
5 Days	Washing floor with light detergent possible

PACKAGING

4 kg/set, part A = 3.48 kg, part B = 0.52 kg
20 kg/set, part A = 17.4 kg, part B = 2.6 kg

STORAGE AND SHELF LIFE

- 1 year

HEALTH & SAFETY

Material Safety Data Sheet (MSDS) available upon request.

Technology for Engineers

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POLYTHANE™ 232 MF

SELF SMOOTHING POLYURETHANE FLOOR OF THICKNESS 3-4 MM

232 MF

PRODUCT DATA SHEET

DESCRIPTION

Polythane™ 232 MF is a flow applied, self-smoothening 4 component polyurethane floor screed. Topping in thickness average 3-4 mm for industrial application and repairing system in smooth finish offering versatility in performance, aesthetics and cost effective.

RECOMMENDED USES

- Hygienic floor for kitchens, food and beverage processing and packaging plants.
- Chemical resistance floor for chemical processes
- Mechanically durable floor for light to medium load like packing rooms, kitchens, loading docks and store rooms
- Warehouses

MAIN PROPERTIES

- Excellent chemical resistance
- Resists bacterial growth, fungi, mould and mildew
- Easily cleaned and maintained smooth seamless surface
- High-density systems with maximun wear, abrasion and impact resistance
- User-friendly, low odor during installation
- One of the fastest “turn around time” polymer modified product which reduces cost
- High temperature resistance up to 80 °C
- Seamless without joints for optimum sanitation and hygienic finish
- Food Grade

TECHNICAL PROPERTIES

Density	1.85 kg/mm/sqm
* Compressive strength	50 N/mm^2
* Tensile Strength	65.09 ksc (ASTM C307-03)
* Flexural Strength	153.66 ksc (ASTM C348)
* Pull-off Strength	1.64 mPa (ASTM D7522)
Thermal conductivity	0.9 W/m °C
* Taber abrasion resistance	0.1 gm/1000 gm/1000 rpm
* Coefficient of thermal expansion	3.5 X 10 - 5 °C
Impact resistance	<0.5 (BRE screed tester) mm
Water absorption	0 ml
* Temperature resistance	0 °C to 80 °C
Pot life	25 - 30 min. at 30 °C

COLOR

- Light Gray (Close to RAL #7035 Light Gray)
- Medium Gray (Close to RAL #7040 Window Gray)
- Dark Gray (Close to RAL #7037 Dusty Gray)
- Yellow Cream (Close to RAL #1014 Ivory)
- Yellow Buff (Close to RAL #1002 Sand Yellow)
- Light Green (Close to RAL #6021 Pale Green)
- Dark Green (Close to RAL #6032 Signal Green)
- Blue (Close to RAL #5024 Pastel Blue)
- Red (Close to RAL #3001 Signal Red)

SURFACE PREPARATION

- Concrete should have a mechanical strength of at least 210 KSC (cyl)
- Moisture contents in the concrete should be less than 5%
- Surface preparation by scarifying crossed ines or shotblasting
- Groove every 1.5 meter, crossed lines, is recommended for better bonding into the substrate
- Key lock, two paralel lines, at all edges to wall, to gutter is also recommended to avoid curlin and debonding

INSTALLATION

- Primer, epoxy primer Rocaprime™ 200 and broadcasting with Filler QS-4 100 g/m^2 are recommended prior coating with Polythane™232 MF. Let the primer completely dry, approximately 6-8 hours before applying the top coat.
- Polythane™232 MF should not be applied on floor temperature below 10°C. Temperatures should not fall below 5°C in the 24 hours after application.
- Polythane™232 MF is not designed for immersion.

AVERAGE CONSUMPTION

- 3.33 m$_2$/set/ 3 mm

TRAFFICABILITY (at 35 °C)

8 hours	Foot traffic
18 hours	Light traffic
24 hours	Full traffic
7 days	Full cured

MAINTENANCE

Regular cleaning and maintenance will prolong the life of Polythane™232 MF, enhance the appearance and reduce the tendency to retain dirt.

- For the first 7 days, use only clean water to wash the floor
- After 7 days, can use liquid soap or light diluted detergent and high pressure water to wash the floor

Technology for Engineers

POLYTHANE™ 232 MF

SELF SMOOTHING POLYURETHANE FLOOR OF THICKNESS 3-4 MM

232 MF

PRODUCT DATA SHEET

PACKAGING

Polythane Part A	3 kg/container, 6 container/box
Polythane Part B	3 kg/container, 6 container/box
Polythane Part C	12.3 kg/bag
Polythane Part E	200 g/bag

STORAGE AND SHELF LIFE

- 6 months to 1 year

HEALTH & SAFETY

Material Safety Data Sheet (MSDS) available upon request.

Technology for Engineers

POLYTHANE™ 233 HF

HEAVY DUTY, SLIP RESISTANT POLYURETHANE SCREED OF THICKNESS 6-9 MM

233 HF

PRODUCT DATA SHEET

DESCRIPTION

Polythane™ 233 HF is a 5 component polyurethane trowel applied in average thickness from 6-9 mm screed for industrial application and repairing system in matt antiskid finish offering versatility in performance, aesthetics and cost effective.

RECOMMENDED USES

- Hygienic floor for kitchens, food and beverage processing and packaging plants.
- Chemical resistance floor for chemical processes
- Thermal shock resistance floor for freezers, refrigerators and oven installed spaces
- Mechanically durable floor for loading docks and warehouses
- Anti-skid finish for safety in oily, slippery service conditions

MAIN PROPERTIES

- Anti-skid surface for safety
- Excellent chemical resistance
- High temperature resistance up to 120 °C
- Easily cleaned and maintained surface
- User-friendly, low odor during installation
- Resists bacterial growth, fungi, mould and mildew
- One of the fastest "turn around time" polymer modified product which reduces cost
- High-density systems with maximum wear, abrasion andimpact resistance
- Seamless without joints for optimum sanitation and hygienic finish
- Food Grade

TECHNICAL PROPERTIES

Density	2.0 kg/mm/sqm
* Compressive strength	50 N/mm^2
* Tensile Strength	61.69 ksc (ASTM C307-03)
* Flexural Strength	127.40 ksc (ASTM C348)
* Pull-off Strength	1.56 mPa (ASTM D7522)
Thermal conductivity	1.0 W/m °C
* Taber abrasion resistance	0.2 gm/1000 gm/1000 rpm
Coefficient of thermal expansion	2.5 X 10 - 5 °C
Impact resistance	< 0.5 (BRE screed tester) mm
Water absorption	0 ml
* Temperature resistance	-40 °C to 120 °C
Pot life	25 - 30 min. at 30 °C

COLOR

- Light Gray (Close to RAL #7035 Light Gray)
- Medium Gray (Close to RAL #7040 Window Gray)
- Dark Gray (Close to RAL #7037 Dusty Gray)
- Yellow Cream (Close to RAL #1014 Ivory)
- Yellow Buff (Close to RAL #1002 Sand Yellow)
- Light Green (Close to RAL #6021 Pale Green)
- Dark Green (Close to RAL #6032 Signal Green)
- Blue (Close to RAL #5024 Pastel Blue)
- Red (Close to RAL #3001 Signal Red)

SURFACE PREPARATION

- Concrete should have a mechanical strength of at least 210 KSC (cyl)
- Moisture contents in the concrete should be less than 5%
- Surface preparation by scarifying crossed lines or shotblasting
- Groove every 1.5 meter, crossed lines, is recommended for better bonding into the substrate
- Key lock, two paralel lines, at all edges to wall, to gutter is also recommended to avoid curling and debonding

INSTALLATION

- Primer, epoxy primer Rocaprime™ 200 and broadcasting with Filler QS-4 100 g/sqm are recommended prior coating with Polythane™233 HF. Let the primer completely dry, approximately 6-8 hours before applying the top coat.
- Polythane™ 233 HF should not be applied on floor temperature below 10 °C. Temperatures should not fall below 5°C in the 24 hours after application.
- Polythane™ 233 HF is not designed for immersion.

AVERAGE CONSUMPTION

- 2.21 m^2/set/ 6 mm

TRAFFICABILITY (at 35 °C)

8 hours	Foot traffic
18 hours	Light traffic
24 hours	Full traffic
7 days	Full cured

MAINTENANCE

Regular cleaning and maintenance will prolong the life of Polythane™ 233 HF, enhance the appearance and reduce the tendency to retain dirt.

- For the first 7 days, use only clean water to wash the floor
- After 7 days, can use liquid soap or light diluted detergent and high pressure water to wash the floor

Technology for Engineers

POLYTHANE™ 233 HF

HEAVY DUTY, SLIP RESISTANT POLYURETHANE SCREED
OF THICKNESS 6-9 MM

233 HF

PRODUCT DATA SHEET

PACKAGING

Polythane™ Part A	3 kg/container, 6 container/box
Polythane™ Part B	3 kg/container, 6 container/box
Polythane™ Part C	12.3 kg/bag
Polythane™ Part D	8 kg/bag
Polythane™ Part E	200 g/bag

STORAGE AND SHELF LIFE

- 6 months to 1 year

HEALTH & SAFETY

Material Safety Data Sheet (MSDS) available upon request.

Technology for Engineers