

RECYCLED SOLID SURFACE SHEET MATERIAL

Durat® Palace is the design collection developed within a collaboration between the Finnish solid surface brand Durat® and the Dutch design agency MOST Collective. The Palace collection from Durat® consists of 12 fresh, terrazzo colour combinations. The sheet is the sustainable solution of solid surface materials. Durat® contains 30% recycled acrylic. The sheet material is also fully recyclable.

Important characteristics

- Made with natural colour pigments
- Contains 30% recycled acrylic
- Fully recyclable
- Complies with M1 classification (Emission Classification of Building Materials)
- Food safe



DURAT®
PALACE

PYRASIED XTREME ACRYLIC®

Material description

Durat® Palace is the environmentally friendly alternative for solid surface material. The sheet material consists of 30% recycled acrylic and contains natural colour pigments.

Colour and surface

The Palace collection of Durat® currently consists of 12 terrazzo colour combinations. The material is supplied without a polished surface as standard. This makes the surface somewhat duller and matt. Finishing is always required to achieve a beautiful, glossy, finished surface. The reason that Durat® is supplied without surface finish as standard, is because the material is often still fabricated on-site. Durat® has a silky surface after polishing, which means that the tactility is very soft and feels warm. The material is, therefore, suitable for kitchen tops, sanitary applications and bars and counters.

Sheet sizes and thicknesses

Durat® Palace is available in 9 and 12mm in the standard sheet size 2900x800mm.

Characteristics

Durat® Palace is wear-resistant, food safe and easy to maintain. The material is very well resistant to moisture and various chemicals (see backside for specifications). Durat® Palace emits no harmful emissions and meets with the criteria for M1 classifications for construction products with a low emission. It is safely tested for use with food.

Applications

Durat® Palace is the eco-luxury solid surface material with a happy, terrazzo look. The durable choice in sheet material for interiors such as hotels, restaurants, retail, hospitals, laboratories, boats, ships, bathrooms and kitchens. The Durat® material offers designers almost infinite possibilities to create different, connecting and seamless surfaces. Or to glue kitchen tops and sinks into one whole. The seams can be sanded or polished almost invisibly. Durat® can deliver customized baths and shower trays with their flexible mold technology. Shower trays can be made in

any size with the same characteristics as the standard. The maximum size of a customer-specific shower tray is 2000x1000mm.

Fabrications

Durat® Palace can be treated in the same way as other solid surface materials, such as HI-MACS or Corian. With standard woodworking machines, it is possible to saw, mill, drill, polish and sand Durat®. The material cannot be bent well, but can be glued very nicely. Durat® makes customer-specific kitchen tops that seamlessly include a sink in the same material. The surface of the sheet can easily be made new again by sanding the material lightly.

Environment

The material can be 100% recycled at the end of its lifespan. Durat® takes it back for recycling into new sheets.



Delivery program



Durat® Palace
P-001 Greyhound



Durat® Palace
P-002 Cherry bombshell



Durat® Palace
P-003 Mudslide



Durat® Palace
P-004 Absinthe



Durat® Palace
P-005 Cuba libre



Durat® Palace
P-006 Black Velvet



Durat® Palace
P-007 Martini



Durat® Palace
P-008 Mint Julep



Durat® Palace
P-009 Gin Daisy



Durat® Palace
P-010 Midori Sour



Durat® Palace
P-011 Blue Hawaiian



Durat® Palace
P-012 Violette Royale

Delivery options

Durat® Palace is produced on order with a delivery time of 2 to 3 weeks depending on the size of the project. The minimum order quantity is 1 full sheet with a maximum sheet size of 2900x800mm.

If you want a different colour or thickness, we can also have this produced customer-specific. Durat® offers

this service within their RAL-collection. The RAL-collection is available in numerous colours, but a customer-specific RAL or PMS colour is also possible. This is already possible from 1 full sheet!

Ask our Sales & Support department (sales@pyrasied.nl) for more information.

Samples

We have samples available of the entire Palace collection and some RAL shades. Samples can be ordered via our website www.pyrasied.nl.

Technical specifications

EVERYDAY HOUSEHOLD SUBSTANCES

BLACK CRAYON	1	GENTIAN VIOLET SOLUTION	1	TEA	1
BLACK SHOE POLISH	1	GRAPE JUICE	1	TOMATO KETCHUP	1
BLUE INK (BALL POINT)	3	HAIR DYE	1	VEGETABLE OIL	1
BLUE INK (WASHABLE)	1	IODINE SOLUTION	1	WHOLE MILK	1
COFFEE	1	LIPSTICK	1		
ETHANOL 48%	1	PLAIN MUSTARD	2		

- 1 non-staining
 2 removable by alcohol or naphtha
 3 removable by 2nd application of household scouring powder

CHEMICALS – SERVICEABLE AND REPAIRABLE

The surface finish shall be unaffected by the reagents except for superficial surface changes which are removable by 600 grit wet sandpaper. Any resulting damage should not impair use of unit and should be easily repairable using abrasive and polishing compounds.

ACETONE	ETHYL ALCOHOL	PHENOL, 5% (DISINFECTANT)
AMMONIA, 10% IN H ₂ O	HYDROGEN PEROXIDE, 3% IN H ₂ O	SODIUM HYPOCHLORITE (BLEACH)
AMYL ACETATE	LYE, 1-2% (DRAIN CLEANER)	TOLUENE
CITRIC ACID, 10% IN H ₂ O	NAPHTHA	UREA, 6,0% IN H ₂ O
ETHYL ACETATE	PINE OIL	VINEGAR

DURAT® FINISH PERFORMANCE (BRITISH STANDARDS)

TEST	RESULTS	COMMENT
WET HEATS BS EN 12721		
55 °C	5	NO DAMAGE
70 °C	5	NO DAMAGE
85 °C	5	NO DAMAGE
DRY HEATS BS EN 12722		
120 °C	4	SLIGHT MARKING
140 °C	3	SLIGHT VISIBLE DISTURBANCE
160 °C	2	VISIBLE DISTURBANCE

FIRE TESTS – reaction to fire, ignibility of building materials.

TEST
ISO 5657-1986E (NT FIRE 033)
RESULT CLASS 1
TEST
BS 476: Part 7: 1997
RESULT CLASS 1

EMISSION CLASSIFICATION OF BUILDING MATERIALS

THE BUILDING FOUNDATION RTS
RESULT CLASS M1

MECHANICAL AND PHYSICAL PROPERTIES

PROPERTY	METHOD	RESULT
APPR. WEIGHT 12MM DURAT®		18.3 KG/M ²
DENSITY	ASTM D792A	1,41 ±0,01 G/CM ³
FLEXURAL STRENGTH	ASTM D790	36,3 ±2,6 MPa
MODULUS OF ELASTICITY (FLEXURAL)	ASTM D790	4810 ±50 MPa
TENSILE STRENGTH	ASTM D638	16,1 ± 3,1 MPa
MODULUS OF ELASTICITY (TENSILE)	ASTM D638	4780 ± 260 MPa
ELONGATION AT BREAK	ASTM D638	0,3 ± 0,1%
IMPACT RESISTANCE (CHARPY)	ISO 179	1,7 ± 0,5 KJ/M ²
BARCOL HARDNESS	ASTM D2583	46 ± 2
LINEAR THERMAL EXPANSION (COEFFICIENT)	ASTM D696	72X10 ⁻⁶ (0,0072%/°C)

SUITABILITY FOR SURFACES WHERE FOODSTUFFS ARE HANDLED

VTT BIOTECHNOLOGY AND FOOD RESEARCH
RESEARCH REPORT NO. BEL71/98

Data are from the technical datasheet of Durat®

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