

Montelli®

SPEC DATA SHEET

1. Product Name

Montelli® Surfaces

2. Manufacturer

DuPont de Nemours International Sàrl
 Chemin du Pavillon 2
 P.O. Box 50
 CH-1218 le Grand Saconnex
 Geneva, Switzerland

3. Product Description

Basic use

Montelli® Surfaces is a decorative material used in a variety of interior applications in the residential and commercial segments. It is produced by a continuous casting process with strict quality control. It is supplied in sheets and can be used to create kitchen countertops, bathroom vanities, shower surrounds, wall panels, coffee tables, reception desks and many other applications. Because the material is solid and uniform right through, it is durable, non-porous, hygienic and repairable. The sheets can be cut, routed, seamed inconspicuously, sanded and engraved to create unlimited designs and colour effects.

Composition

Montelli® Surfaces is composed of about 1/3 Unsaturated Polyester Resin and 2/3 Alumina Tri-hydrate (ATH) and pigments.

Standard sheet products

Montelli® Surfaces sheets are available in a variety of standard colours (see Table 1 below). To help the colour selection process, each colour has been assigned a specific code as well as a name.

Please refer to this code and name when specifying Montelli® Surfaces. All sheets can be easily cut to size by professional fabricators. For more information on colours, refer to the Montelli® Surfaces colour brochure or contact your DuPont representative or a local Montelli® Surfaces supplier.

- Width: 760 ± 4 mm
- Length: 3658 -6 +13 mm
- Thickness: 12.0 ± 0.7mm

Limitations

Use:

Do not use Montelli® Surfaces products where common sense would deem it unsafe. Montelli® is not recommended for exterior applications. There are special considerations for installation in masonry construction. Contact a local Montelli® Surfaces supplier for more information.

Storage:

DuPont recommends indoor storage for Montelli® Surfaces, as sheets can change colour due to the long exposure to direct bright sunlight or can be impacted by long exposure to water and high humidity.

Resistance to heat:

Although Montelli® Surfaces is very durable, like most materials, it can be damaged by excessive or prolonged exposure to heat. DuPont recommends that hot cookware always be placed on a trivet.

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TABLE 1: Colour Portfolio

Colour Code	Colour Name	Joint Adhesive Colours	
		1 st Option	2 nd Option
101	Arctic White	Glacier White	Whitecap
201	Snow Drift	Designer White	Glacier White
204	Lotus	Bone	Tumbled Glass
207	Pearl White	Dawn Beige	Tumbled Glass
231	Ivory Coast	Bone	Ecru
282	Grey Granito	Blue Pebble	Silver Gray
288	Pepper Grey	Pearl Gray	Silver Gray
306	Blizzard	Designer White	Glacier White
1201	Cicada Wings	Bone	Dawn Beige
1202	Foggy Iceland	Pearl Gray	Light Green
1213	Silvery Sand	Glacier White	Whitecap
1303	Lily Pond	Dawn Beige	Cameo White
1457	Moss	Silver Gray	Blue Pebble
1458	Bark	Blue Pebble	Natural Gray
1459	Nut	Elegant Gray	Concrete
1461	Crepuscule	Stone Harbor	Gray Fieldstone
1462	Penumbra	Deep Sable	Silt
2530	Iceland Snowfield	Cameo White	Glacier White
2565	Hail Storm	Cameo White	Dawn Beige
2586	Snow Jade	Bisque	Tumbled Glass

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Resistance to stains & chemicals:

Montelli® Surfaces is non-porous and can be fabricated with inconspicuous seams so spills and stains are normally not absorbed into the surface, making the product resistant to many types of stains. Stains caused by common household spills, such as vinegar, coffee, tea, lemon juice, dyes, ketchup and red wine may be simply removed by a detergent and a scouring pad (white 3M Scotch-Brite™) then rinsed with plenty of water. However certain aggressive chemicals, such as paint solvents, nail varnish, acetone, iodine, drain cleaner and other strong acid and base products, can damage the surface of Montelli® Surfaces products. If an accidental spill of such aggressive chemicals occurs, flush promptly with plenty of soapy water and try to remove the spill with a detergent and a scouring pad. Montelli® Surfaces products are not recommended for working areas where such strong chemicals are used for a long exposure time. For additional information on resistance to stains and chemicals, contact your DuPont representative.

4. Technical Data

Performance properties

Typical performance properties of Montelli® Surfaces are shown in Table 2. The performance of Montelli® Surfaces sheets may vary according to colour and aesthetics, thickness and surface finish of the material.

Fabrication & installation:

To create unlimited designs and colour effects, Montelli® Surfaces can be cut to size, routed, seamed inconspicuously, sanded and installed according to the recognized guidelines of the Solid Surface industry in Europe and similar to the fabrication and installation guidelines of Corian® Solid Surface.

Industrial woodworking tools which are maintained in good shape, should be used when fabricating and installing Montelli® Surfaces. For best performance during cutting, seaming and sanding, it is recommended that Montelli® sheets are close to normal room temperature. For special fabrication or installation of Montelli® Surfaces, contact your DuPont representative. All seams must be colour-matched and made inconspicuous using the “Corian® Joint Adhesive”. All field seams should be reinforced. The edges to be joined should be straight, smooth and clean.

During cutting, sanding or heating of Montelli® Surfaces products, methyl methacrylate and styrene vapours may be perceptible. The product as such is not hazardous and not classified as a dangerous material according to the standards and regulatory requirements in the European Union. When fabricating Montelli® Surfaces products, you should provide appropriate exhaust ventilation and use equipment with dust collection system. For additional information on safety, health and environment, refer to the DuPont Article Information Sheet (AIS) or Safety Data Sheet and the regulatory requirements in your region or call your DuPont representative.

5. Availability and cost

Montelli® Surfaces products are readily available through a network of distributors, and fabricators/installers.

Please call your DuPont representative for the name of a local distributor or fabricator. Cost varies according to dimensions as well as fabrication and installation details of any application. Contact your DuPont representative for the names of authorized dealers, fabricators/installers, who can provide price information.

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6. Warranty

DuPont offers Montelli® Surfaces with a 10-year limited “Product” warranty. The limited “Product” warranty ensures that all products will be free from manufacturing defects for a period of 10 years after the initial purchase. Please contact your DuPont representative should you need additional information on the Montelli® Surfaces 10-year limited product warranty.

7. Care & Maintenance

With simple care, Montelli® Surfaces will retain its original beauty and hygienic properties for many years. For routine care, use a damp cloth and a mild cream cleanser or a common household degreaser. For stubborn stains, use a plastic scouring pad to rub over the stain in circular motion with a detergent or ammonia-based surface cleaner. Only with a very persistent stain, such as lily pollen, saffron, cigarette burns, ink or shoe polish, you may need to use a plastic scouring pad and rub over the stain with some household bleach (e.g. Javel, Clorox). Bleach can discolour the surface if not removed completely by rinsing with water afterwards. For dry spills, remove first by gently scraping away the residue material with a blunt plastic scraper. Then remove the stain by following the methods described above as required. After cleaning, rinse the surface several times with warm water and dry completely with a soft cloth. Always restore the overall lustre afterwards; use a damp cloth and a mild cream cleanser and blend the scrubbed area into the entire surface by rubbing in circular motion.

As Montelli® Surfaces is inherently “renewable”, most damage, including impact, heat or chemical damage can usually be repaired on site by professionals. However, below guidelines should be followed to prevent damage on your Montelli® Surfaces:

- Never cut directly on Montelli® Surfaces, as it will score the surface. Use a cutting board instead.
- Do not put hot pans or heat generating appliances directly on the surface. Always use a heat protection pad or trivet.
- Avoid heavy or sharp objects striking the surface.
- Use water or ammonia-based cleanser to clean spills immediately and rinse afterwards with water.

8. Technical Services

There is a Technical Support Team in DuPont for Europe, the Middle East and Africa region.

9. Legal

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TABLE 2: Typical Performance Properties of Montelli® Sheets

Property	Typical Result	Requirement	Test Method	Ref.
Flexural stress	55.19 MPa		EN ISO 178	2
Flexural modulus	9463.2 MPa		EN ISO 178	2
Deflection	3.412 mm		EN ISO 178	2
Tensile strength	38.4 MPa		EN ISO 527-2	3
Deformation	0.51%		EN ISO 527-2	3
Surface defects	No failure	Max. contamination area < 1.0 mm ² /m ²	ISO 19172-2 Clause 5	1
Consistency of color	No noticeable base color change along the length of the seam		ISO 19172-2 Clause 6	1
Load test	No cracks/no breaks	deflection <0.25mm	ISO 19172-2 Clause 7	1
Resistance to impact by large-diameter ball	No breakage	imprint <10mm	ISO 19172-2 Clause 8	1
Lightfastness (Xenon Arc)	5* - No changes	Not worse than 4*	ISO 19172-2 Clause 9	1
Stain/ chemical resistance	Rating 4/5*	Not worse than 3*	ISO 19172-2 Clause 10.1	1
Resistance to cigarette burns	Rating 3/4*	Not worse than 2*	ISO 19172-2 Clause 11	1
Resistance to dry heat (180° C)	Rating 5*	Not worse than 3*	ISO 19172-2 Clause 12	1
Resistance to wet heat	Rating 5*	Not worse than 3*	ISO 19172-2 Clause 13	1
Hot/cold cycle water resistance heat	No failure	No failure	ISO 19172-2 Clause 14	1
Hardness (Barcol)	60 ±3 (HRM)		ISO 19172-2 Clause 15	1
Hardness (Ball indentation)	290 ±23 (N/mm ²)		ISO 19172-2 Clause 15	1
Hardness (Rockwell)	88 ±1 (HRM)		ISO 19172-2 Clause 15	1
Dimensional stability (humidity (90 ±5) % RH and (23±2) °C)	-0.02 Longitudinal -0.05 Transversal		ISO 4596-2 Clause 11	1
Dimensional stability (humidity (15 ±5) % RH and (23±) ° C)	0.04 Longitudinal 0.06 Transversal		ISO 4586-2 Clause 11	1
Resistance to immersion in boiling water	Increases < 2% Rating 4*	Increases < 2% Shine not worse than 4*	ISO 4586-2 Clause 7	1
Resistance to surface wear	0.02 % Surface wear for 25 revolutions		ISO 4586-2 Clause 6	1

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- * Rating 5: no visible change
- * Rating 4: minor change of shine and/or colour-only visible at certain angles of view
- * Rating 3: moderate change of shine and/or colour
- * Rating 2: distinct change of shine and/or colour
- * Rating 1: surface damage and/or blistering

- (1) Aimplas report 21-0091-EN/2 11-2011
- (2) Sirris report 21-1599-Labtool s200065-flexion – 19/4/2021
- (3) Sirris report 21-1571-Labtool s200065-traction – 19/4/2021

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