

Spec Data Sheet

**1. Product Name**

DuPont™ Montelli® Solid Surfaces – Basic Series

**2. Manufacturer**

E.I. du Pont de Nemours and Company (DuPont™ Montelli® Products)  
2, Chemin du Pavillon  
P.O. Box 50  
CH-1218 Le Grand Saconnex  
Geneva -Switzerland

**3. Product Description**

**Basic use:**

DuPont™ Montelli® Solid 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 counter tops, 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:**

The DuPont™ Montelli® Basic formulation contains: ± 1/3 of methacrylate and polyester resin and ± 2/3 of aluminium mineral filler (ATH).

**Standard sheet offering:**

DuPont™ Montelli® Basic 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 (for example: 231 – Ivory Mist). Please refer to this code and name when specifying DuPont™ Montelli® - Basic series. All sheets can be easily cut to size by professional fabricators. For complete information on colours, refer to the DuPont™ Montelli® colour brochure or contact your DuPont representative.

- Width: 760 ± 4 mm
- Length: 3020 -6 +13 mm
- Thickness: 12.0 ± 0.7mm

**Customised sheet offering:**

DuPont can also manufacture sheets in which colour, pattern or dimensions are customised within manufacturing capability limits. Contact your DuPont representative for possibilities and limitations.

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TABLE 1: Colour Coordination for DuPont™ Montelli® Basic

Colour Name	Colour Code	Joint Adhesive Colour	Silicone Colour
Artic White	101	Glacier White	Clear
Vanilla	131	Cameo White	Clear
Snow Drift	201	Glacier White	Clear
Lotus	204	Bone	Clear
Sea Glass	206	Whitecap	Glacier White
Pearl White	207	Dawn Beige	Clear
Castor Root	225	Dawn Beige	Clear
Almond Yellow	227	Bone	Clear
Ivory Mist	231	Bone	Clear
Standstone	233	Bone	Clear
Yellow Stone	236	Dawn Beige	Clear
Spring Willow	237	Bone	Clear
Nutshell Matrix	238	Dusty Rose	Clear
Peacock Green	246	Dark Green	Clear
Midnight Galaxia	251	Jewel	Clear
Obsidian	252	Nocturne	Clear
Black Peal	253	Jewel	Clear
Night Star	254	Jewel	Clear
Ocean Blue	261	Duck Blue	Clear
Africa Blue	264	Duck Blue	Clear
Berry Dust	271	Pompei Red	Clear
Dove Grey	281	Pearl Grey	Clear
Winter Breeze	285	Taupe	Clear
White Granito	302	Taupe	Clear
Glacier	306	Glacier White	Clear
Volcanic Rock	311	Dusty Rose	Clear
Gorbi Sand	333	Bone	Clear
Datolite	334	Bone	Clear
Koleidoscope	336	Tumbled Glass	Clear
Sausalito	338	Dawn Beige	Clear
Greenery	340	Light Green	Clear
Sea Kale	360	Dark Blue	Clear
Lava Grey	381	Pearl Grey	Clear
Coffe Latte	384	Dawn Beige	Clear

**Limitations:**

**Use:**

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

**Storing:**

DuPont recommends indoor storage for DuPont™ Montelli® Basic, as sheets can change colour due to the long exposure to direct bright sunlight.

**Resistance to heat:**

Although DuPont™ Montelli® Basic 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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### **Resistance to stains & chemicals:**

DuPont™ Montelli® Basic 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 DuPont™ Montelli® Basic 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. DuPont™ Montelli® Basic 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 DuPont™ Montelli® Basic series are shown in Table 2. The performance of DuPont™ Montelli® Basic sheets may vary according to colour and aesthetics, thickness and surface finish of the material.

#### **Fabrication & installation:**

To create unlimited designs and colour effects, DuPont™ Montelli® Basic 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 DuPont™ Corian® Solid Surface. Industrial woodworking tools which are maintained in good shape, should be used when fabricating and installing DuPont™ Montelli®. For best performance during cutting, seaming and sanding, it is recommended that DuPont™ Montelli® sheets are close to normal room temperature. For special fabrication or installation of DuPont™ Montelli®, contact your DuPont representative. All seams must be colour-matched and made inconspicuous using the "Joint Adhesive for DuPont™ Corian®". All seams should be reinforced. The edges to be joined should be straight, smooth and clean. During cutting, sanding or heating of Dupont™ Montelli® Basic 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 Dupont™ Montelli® Basic 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 Safety Data Sheet and the regulatory requirements in your region or call your DuPont representative.

### **5. Availability and cost**

DuPont™ Montelli® Basic products are readily available through a worldwide network of distributors, and fabricators/installers. Please check Yellow Pages, the internet or call your DuPont representative for the name of a local distributor or fabricator. Cost varies according to dimensions, as well as custom 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. *Maintenance*

With simple care, DuPont™ Montelli® will retain its original beauty and hygienic properties for many years. For routine care, use a damp cloth and a mild creamy soap or a common household degreaser (spray or liquid). For stubborn spills use an abrasive scouring pad (like a 3M white Scotch-Brite™) and a detergent or ammonia based hard surface cleaner. You should only need to resort to an abrasive scouring pad, and rub over the stain with some bleach chemicals (Javel, Clorox), in the case of a really persistent stain or light scratch. Always rinse with water each time chemicals come in contact with the surface. For dry spills, remove first by gently scraping away the residue material with a blunt plastic scraper. Then clean the surface with a household, non-abrasive cleaning pad together with non-bleach, non-abrasive liquid household cleanser and rinse thoroughly with clean water. The following guidelines should also be followed:

- Use a cutting board instead of cutting directly on the surface.
- Do not put hot pans or heating appliances directly on the surface. Always use a cushion for water.
- Minor surface scratches, stubborn stains and cigarette burns can be removed by a Scotch-Brite™ protection.
- Avoid heavy or sharp objects striking the surface.
- Use water or ammonia-based cleanser to clean spills immediately and rinse afterwards with pad.

### 7. *Technical Services*

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

### 8. *Legal*

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available, since we cannot anticipate all variations in actual end-use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

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TABLE 2: Typical Performance Properties of DuPont™ Montelli® Basic Sheets

PROPERTY	TYPICAL RESULTS	UNIT	TESTING METHOD	*
Density	1.73	g/cm <sup>3</sup>	DIN ISO 1183	1
Flexural strength	61.4	MPa	DIN EN ISO 178	1
Flexural modulus	9600	MPa	DIN EN ISO 178	1
Elongation	0.69	%	DIN EN ISO 178	1
Dimensional stability at 20 °C	< 0.16	%	DIN EN ISO 4586 T10	1
Impact resistance (large ball drop)	> 120	cm	DIN ISO 4586 T12	1
Impact resistance (spring load)	> 25	N	DIN ISO 4586 T11	1
Hardness of surface (Mohs index)	2-3		DIN EN 101: 1992-01	1
Compressive strength	168	MPa	EN ISO 604	1
Resistance to boiling water – Increase in weight	0.14	%	DIN EN 4586 T7	1
Resistance to boiling water – Surface change	Grade 5*		DIN EN 4586 T7	1
Resistance to dry heat (@180 °C)	Grade 5*		DIN ISO 4586 T8	1
Thermal shock	No visible change		UNI 9429	1
Resistance to abrasion	74.892	Loss in weight mm <sup>3</sup> /100 rev.	DIN ISO 4586 T6	1
Lightfastness (Xenon Arc)	> 6	Blue wool scale	DIN ISO 4586 T16	1
Slip resistance with 120 µm grit	Passes R9 Requirement		DIN 51130	1
Slip resistance with 150 µm grit	Passes R9 Requirement		DIN 51130	1
Electrical discharge – Surface resistance	> 10 <sup>12</sup>	Ω	DIN EN 6134051	1
Fire classification	Euroclass B-s1,d0		DIN EN 13501-1:2002	2
Reaction to fire	Class M2		NF P 92-501	3
Smoke opacity and gas toxicity	Class F0		NF F 16-101	4
Fire tests	Class 0		BS 476 part 6 & 7	5
NSF Standard for Food Equipment Materials	Certified for Splash Zone		NSF/ANSI 051	6

\* Grade 5: no visible change

\* Grade 4: minor change of shine and/or colour-only visible from certain angles of view

\* Grade 3: moderate change of shine and/or colour

\* Grade 2: distinct change of shine and/or colour

\* Grade 1: surface damage and/or blistering

- (1) Test Report Q IWQ MBL 734 1109-1 from LGA – Germany/04-2004
- (2) Classification Report 11691C from Warringtonfiregent – Belgium/08-2005
- (3) Classification Report 11891-04 from SME/Group SMPE – France/10-2004
- (4) Classification Report 11925-04 from SME/Group SMPE – France/11-2004
- (5) Test Report 153403 & 153404 from Warringtonfire – UK/04-2006
- (6) Certification from NSF International – U.S.A.

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