



1. Product identification

Hanex® Solid Surfaces

Hanex® is a registered trademark of Hyundai L&C Corporation.

2. Manufacturer

Corporate Identification Manufacturer

Hyundai L&C Corporation
Hanwha Building
1Changgyo-dong
Chung-gu
Seoul
South-Korea

Contact for Product Information

Hyundai L&C Europe GmbH
Düsseldorfer Straße 13
65760 Eschborn, Germany

☎ +49 6196 5869 010

☎ +49 6196 5869 019

✉ info@hyundailnc.eu

3. Foreword

This technical advice is correct to the best knowledge and experience according to the current state of the art at the date of its publication.

The provision of this recommendation does not include any warranty of product properties expressed or implied. A liability of the recommendation beyond the legal requirements is not taken over.

The contents are revised and extended constantly; we recommend the consultation for specific demands.

In addition all the relevant regulations on occupational health and equipment safety applicable at the required work must be observed.

4. Product description

Hanex® is a high-performance composite material for decorative and functional applications for the interior, kitchen, bathroom and furniture area. Other special applications are also available, such as exterior use.

Hanex® provides design flexibility, practicality and durability. Supplied in sheets or shapes and can be fabricated with conventional woodworking tools.

Hanex®
Solid Surfaces

Chemical and Stain Resistance

Hanex® is an acrylic solid surface with a high level of alumina trihydrate content as the filler, an ingredient which provides superior resistance to stains and chemicals. However, exposure to harsh chemicals should be avoided. In case of surface contamination, quickly flush affected area with a domestic gritty cleaner and water; sand if necessary. As a rule of thumb: Surface damage may vary with the chemical strength and exposure time.

Chemical and Stain Resistance Report

The (✓) refers to the appropriate method for removing chemical stains.

Classification	%	Gritty Cleaner or Water	Scotch Brite™ or Sand Paper
Acetic Acid	5	✓	
Acetic Acid	10	✓	
Acetic Acid	90		✓
Acetic Acid	98		✓
Acetone		✓	
Aqua Regia			✓
Ammonia	10	✓	
Ammonium Hydroxide	5	✓	
Ammonium Hydroxide	28	✓	
Benzene		✓	
Calcium Thiocyanate	78	✓	
Chloric Hydroxide	20		✓
Chloroform	100		✓
Citric Acid	10	✓	
Dimethyl Formamide			
Ethanol	95	✓	
Ethyl Ether		✓	
Formic Acid	88		✓
Formaldehyde		✓	
Furfural			✓
Gasoline		✓	
Hydrochloric Acid	10	✓	
Hydrochloric Acid	20	✓	
Hydrochloric Acid	37	✓	
Isopropyl Alcohol		✓	

Classification	%	Gritty Cleaner or Water	Scotch Brite™ or Sand Paper
Kerosene	20	✓	
Methyl Alcohol	5	✓	
Methyl Ethyl Ketone		✓	
Mineral Oil		✓	
Nitric Acid	10		✓
Nitric Acid	30		✓
Nitric Acid	40		✓
Nitric Acid	70		✓
Phenol	40		✓
Phenol	85		✓
Phosphoric Acid	25		✓
Phosphoric Acid	85		✓
Silver Nitrate	10	✓	
Sodium Hydroxide	10	✓	
Sodium Hydroxide	25	✓	
Sodium Hydroxide	40	✓	
Sodium Hypochlorite	5	✓	
Sodium Sulphate		✓	
Sulphuric Acid	25	✓	
Sulphuric Acid	30	✓	
Sulphuric Acid	77		✓
Sulphuric Acid	96		✓
Toluene			✓
Xylene		✓	
Zinc Chloride		✓	

Test Method - 16 hours exposure per substance

* For exposures to chemicals other than above, it is recommended to test on a sample piece of Hanex® to confirm suitability for application.

** Common domestic residues, such as the examples listed below, can be removed with water and household cleaners:

Alcohol
Ink
Cigarette stain
Coffee
Cooking oil
Crayon
Curry powder
Make-up

Hair dyes
Juices
Lipsticks
Lotions
Mustard
Nail polish
Pencil lead
Salt

Shoe polish
Soy sauce
Sugar
Tea
Tomato sauce
Vinegar
Whisky
Wine

Hanex®
Solid Surfaces

Sheet Dimensions

Standard-Dimensions

Thickness (mm)	Width (mm)		Length (mm)	
6	760		2.490	
	760			3.070*
		930	2.490*	
12	760			3.680
		930		3.680*
19	760		3.070*	

* available in S-001 R-White, S-008 N-White, S-016 Chalk, S-002 White, S-101 D-White and S-102 G-White

Technical Datasheet

Properties	Unit	Result	Test Method	Notes
Specific Gravity	g/cm ³	1,8		
Tensile Strength	psi	5.400	ASTM D 638	Instron
Tensile Modulus	psi	1,4 X 10 ⁶	ASTM D 638	Instron
Elongation	% min	0,42	ASTM D 638	Instron
Flexural Strength	psi	9.200	ASTM D 790	Instron
Flexural Modulus	psi	1,38 X 10 ⁵	ASTM D 790	Instron
Hardness (Rockwell)		92	ASTM D 785	M scale
Thermal Expansion	mm/m c	3,04 X 10 ⁻⁵	ASTM D 696	
Gloss (60° Gardner)		5 - 20	ANSI Z124	
Color Stability		No change	NEMS LD3	200 hours
Wear & Cleanability		Passes	ANSI Z124	
Boiling Water Surface Resistance		No change	NEMA LD3	
High Temperature Resistance		No change	NEMS LD3	
Stain Resistance		Passes	NEMA LD3	
Impact Resistance		No fracture	NEMA LD3	6 mm sheet – 91,44 cm Drop height - 227 g Sphere
IZOD Impact Strength	ft.lbs/in	0,28	ASTM D 256	Impact
Water Absorption Weight	% max	0,03	ASTM D 570	
Fungi & Bacteria		No attack	ANSI Z124	
Weatherability		No change	ASTM D 1499	1.000 hours