

PRODUCT DATA SHEET

FLOOR-ULTRA 5301 SB PU FINISH

Description	FLOOR-ULTRA 5301 SB PU FINISH is a two-pack, solvent-based Polyurethane Finish based on the chemical reaction of the polyfunctional Acrylic Polyol and the Isocyanate based material with outstanding weathering resistance coating. It is specially designed finish coat for exterior and interior use over the appropriate primer for application on masonry and concrete substrate. Non-skid quality available upon request.	
Features	▪ Good abrasion resistance ▪ Resistance to fuel, engine oil, cleaning chemicals and mild acids ▪ Excellent adhesion in combination with epoxy primers ▪ Good weathering resistance	
Application Areas	Ideal to use at light duty indoor and outdoor exposures especially in car parks, walkways, warehouses, garages and dry processing environments.	
Physical Properties	Colour Finish Density, mixed Solid Content, mixed Weathering Temperature	Wide range of colours as per colour card. Special colour upon request Gloss $1.24 \pm 0.05 \text{ g/cm}^3$ ⁽¹⁾ $48 \pm 2 \%$ by volume ⁽¹⁾ Recommended for direct exposure to sunlight. It is always used as a finish coat in conjunction with FLOOR-PRO and FLOOR-ULTRA primers Dry service temperature range up to 100°C
Remark: (1) Base on White colour		
APPLICATION DATA		
Performance Data	Adhesive strength *Conditions such as installation process, inappropriate maintenance, short and long-term wear and use as well as surface contaminants (wet or dry) affects the slipperiness of flooring materials. To meet slip resistance requirement for wet conditions and/or surface contaminants (wet or dry), appropriate textured or anti-slip floor systems are recommended. Please contact Nippon Paint for further details and specifications. **The final floor finish shall follow the profile of the concrete, therefore appropriate levelling compound is recommended to treat the undulating surface	1.5 N/mm ² (Concrete failure)
Application Guide	Mixing Ratio (by volume) Number of coats	Part A : Part B 9 : 1 2 – 3 coats

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	Recommended Thickness per coat 35 microns for dry film 73 microns for wet film Paint Consumption 0.07 L/m²/coat (for dry film thickness of 35 microns) Theoretical Coverage 13.7 m²/L/coat (for dry film thickness of 35 microns) This theoretical coverage rate has been calculated from the volume solid of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. Dry to touch 30 minutes at 25 - 30°C Dry to handle 5 hours at 25 - 30°C Recoating time Minimum 8 hours at 25 - 30°C Curing time 5 – 7 days at 25 - 30°C Note: Drying time will become remarkable under low temperature. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. Allow the surface to dry thoroughly prior to overcoating. Pot Life (Working time) 4 – 6 hours after mixing at 25 - 30°C, depending on prevailing temperature Thinning Maximum 10% for brush and roller application Maximum 5% for airless spray application Dilution Thinner THINNER FLOOR-ULTRA PU Cleaning Solvent THINNER FLOOR-ULTRA PU All equipment should be cleaned IMMEDIATELY with Thinner after use Substrate Temperature relative to dew point ≥ 3°C Recommended application temperature range Minimum 5°C. If not, drying and overcoating time will be considerably extended Maximum 35°C Relative Humidity < 85% Note : During application of the paint, naked flame, welding operations and smoking should not be allowed and good ventilation is necessary.
Substrate Requirements	- Concrete or screed substrate compressive strength should be of minimum 25 N/mm² and adhesive pull off strength of 1.5 N/mm². - The moisture content of concrete shall be < 4% by Tramex moisture meter and dried up to 85% RH as per BS8204. It shall be free from rising damp and must be waterproofed against negative ground water pressure. - New concrete surfaces must be left at least 4 weeks to dry before painting. Recommended pH value of substrate surface is 7 ~ 9.

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	- Prepare the concrete substrate surface by diamond-wheel grinding. Repair damaged area and patch up cracks and holes using a suitable repair material compatible with the coating system.									
Surface Preparation	▪ Concrete surface must be clean, free of laitance and contaminants. Foreign and unstable matter such as powder, dirt, dust, and loose plaster should be removed by low pressure water jet washing. Oil or grease should be removed by solvent cleaning or mild detergent. Allow surface to dry again. ▪ In the event the moisture content is > 4%, FLOOR-PRO 203 SL EPOXY MOISTURE BARRIER may be applied as temporary moisture barrier system. Allow to cure overnight or 16 hours before the application of subsequent coating system.									
Application Methods	Add all the Part B into Part A and mix both liquid parts thoroughly for 1 minute by using a suitable electrical stirrer until a fully homogeneous mix has been achieved. Transfer the mixture to a clean container and mix for another minute. Avoid inclusion of air during mixing process. Apply FLOOR-ULTRA 5301 SB PU FINISH with a suitable roller and brush or spread with a suitable squeegee and backroll with a short nap roller. FLOOR-ULTRA 5301 SB PU FINISH should apply within the pot life 4 hours at 30°C.									
Recommended Painting System	The following Primer and Topcoat is recommended for FLOOR-ULTRA 5301 SB PU FINISH: Floor-Ultra 1202 SB Epoxy Primer Floor-Ultra 1203 SB Epoxy Primer Floor-Pro 116 SF Epoxy Primer Floor-Ultra 5203 SB Epoxy Finish Floor-Ultra 5204 SB Epoxy Finish For the choice of coating system for different application, refer to the product brochure or contact Nippon Paint for professional recommendation.									
Packing	<table><tr><th>Components</th><th>PART A</th><th>PART B</th></tr><tr><td>TOTAL 5L</td><td>4.5L</td><td>0.5L</td></tr><tr><td>TOTAL 20L</td><td>18L</td><td>2L</td></tr></table>	Components	PART A	PART B	TOTAL 5L	4.5L	0.5L	TOTAL 20L	18L	2L
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Storage and Shelf Life	The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care. <table><tr><th>Components</th><th>PART A</th><th>PART B</th></tr><tr><td>Months</td><td>36</td><td>36</td></tr></table>	Components	PART A	PART B	Months	36	36			
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Safety Precaution	1. Flammable Liquid. Do not expose to heat, sparks or open flame. 2. Skin Contact: May cause moderate skin irritation. Avoid prolong contact with skin. Use solvent resistant glove. To remove splashes of paint from skin, use soap and water. 3. Inhalation: Respiratory irritation. Only used in well ventilated areas. Do not breathe vapor or spray paint. Respirator with organic vapor cartridges recommended. 4. Eye Contact: Cause severe eye irritation and blurred vision. Safety glasses / goggles with side shields recommended. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.									

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	5. Ingestion: Harmful if swallowed. Keep away from drinks, food and out of reach of children. If swallowed, seek medical advice immediately and show the container or label. 6. In the event of an accident, contain and collect spillage using sand or earth or absorbent. Do not empty into drain or water courses. 7. Wastes and empty containers should be treated and disposed of in accordance with national and local regulations. Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
Disclaimer	The information in this data sheet is given to the best of Nippon Paint's knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user's responsibility to determine the suitability of the product for the user's particular use. The condition of the substrate and application are not within Nippon Paint's control. Therefore, no implied conditions, warranties or other terms will apply to the Product. Nippon Paint does not and cannot warrant the results which the user may obtain by using the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint's policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user's responsibility to check with Nippon Paint for the latest version of this data sheet. This data sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail.

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