Product Data

HEMPEL'S POLYBEST 55551

BASE 55559 with CURING AGENT 95370

Description: HEMPEL'S POLYBEST 55551 is a high-gloss, two-component polyurethane enamel especially suited for application by brush. It has excellent gloss and colour retention. Resistant to water, wear, and marine atmosphere.

Recommended use: As a finishing coat on surfaces above the waterline on glass fibre, aluminium, steel, ferro-cement, plywood and other non-yielding wooden surfaces.

Availability: Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	White/10001	Black/19990
Finish:	High-gloss	High-gloss
Volume solids, %:	54 ± 1	52 ± 1
Theoretical spreading rate:	15.4 m²/litre - 35 micron 619 sq.ft./US gallon - 1.4 mils	14.9 m²/litre - 35 micron 619 sq.ft./US gallon - 1.4 mils
Flash point:	30°C/86°F	30°C/86°F
Specific gravity:	1.3 kg/litre - 10.8 lbs/US gallon	1.1 kg/litre - 9.2 lbs/US gallon
Dry to touch:	6-8 hours at 20°C/68°F 14-18 hours at 10°C/50°F	6-8 hours at 20°C/68°F 14-18 hours at 10°C/50°F
Dry to sand:	24 *(app)* hours at 20°C/68°F 54 *(app)* hours at 10°C/50°F	24 *(app)* hours at 20°C/68°F 54 *(app)* hours at 10°C/50°F
Fully cured:	7 days at 20°C/68°F 14 days at 10°C/50°F	7 days at 20°C/68°F 14 days at 10°C/50°F
V.O.C.:	410 g/litre - 3.4 lbs/US gallon	440 g/litre - 3.7 lbs/US gallon

**Other shades according to assortment list.*

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.

APPLICATION DETAILS:

Mixing ratio for 55551:	Base 55559 : Curing Agent 95370 2 : 1 by volume			
Application method:	Airspray		Brush/Paint pad *(See REMARKS overleaf)*	
Thinner (max.vol.):	08510 (15-35%)		08710 (5%)	
	Airspray HVLP:	Conventional Gravity feed:	Conventional Suction feed:	Conventional Pressure feed:
Fluid tip:	1.2-1.5 mm	1.4-1.6 mm	1.4-1.8 mm	1.0-1.2 mm
Air pressure	0.7 bar at nozzle	3-4 bar	3-4 bar	4-6 bar
	(Spray data is indicative and subject to adjustment).			
Spray viscosity (20°C/68°F):	DIN 4: 17-18 seconds FORD 4: 17-19 seconds ANOR 4: 19-21 seconds			
Pot life:	6 hours (20°C/68°F) 12 hours (10°C/50°F)			
Cleaning of tools:	HEMPEL'S THINNER 08710 or 08510			
Indicated film thickness, dry:	35 micron/1.4 mils			
Indicated film thickness, wet:	75 micron/3 mils			
Recoat interval, min:	16 hours (20°C/68°F) 36 hours (10°C/50°F)			
Recoat interval, max:	5 days (20°C/68°F) *(See REMARKS overleaf)* 10 days (10°C/50°F) *(See REMARKS overleaf)*			

Safety: Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.

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APPLICATION CONDITIONS:	Apply only where application and curing can proceed at temperatures above 5°C/41°F. The surface must be clean and dry, and its temperature must be above the dew point to avoid condensation. Best results are obtained at temperatures between 15-20°C/59-68°F. High relative humidity or condensation within the first 24 hours after application (20°C/68°F) may impair the film formation. Moisture content in wood should not exceed 16%. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	HEMPEL'S LIGHT PRIMER 45551 or according to specification.
REMARKS:	
Service temperatures:	Dry exposure only: Periodical, maximum: 120°C/248°F Peak, maximum: 140°C/284°F At service temperatures above 100°C/212°F, slight discoloration may be expected. May be specified in another film thickness than indicated depending on purpose and area of use. Normal range is 30-40 micron/1.2-1.6 mils.
Thinning:	The amount of thinning relates to conditions of application: Method, temperature, ventilation and substrate.
Recoating:	Maximum recoat interval refers to exterior surfaces exposed to periodical immersion, splash, condensation or abrasion during service life of the coating system. On other areas no maximum recoat interval for adhesion. If maximum recoat interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion. A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoat intervals. Any dirt, oil and grease has to be removed, e.g. with suitable detergent followed by (high pressure) fresh water cleaning. Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual overcoating. In case of overcoating with other paint materials maximum will be 1-3 days at 20°C/68°F), 2-6 days at 10°C/50°F, depending on type. CURING AGENT 95370 is sensitive to moisture. Store in a dry place and keep the can tightly closed until use. Open curing agent cans with caution as overpressure might exist. Even small traces of water in the mixed paint will reduce the pot life and result in film defects. If only part of the CURING AGENT is to be used, do not remove the lid, but make two holes in the bottom of the can. After use, close the holes tightly with tape. The cans should be opened with care as there may be risk of overpressure, especially in the can containing the curing agent. Do not fix the lid on cans containing mixed paint.
Note:	**The information given in the Product Data Sheet is intended for commercial use.**
ISSUED BY:	HEMPEL A/S - 5555110001CS001

This Product Data Sheet supersedes those previously issued.
For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.
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