TDS 0848 REVIEW: 02/2015

Rethane VBR 649 Component A: 649.0000

Component A: 649.0000 Component B: 840.0720



Rethane VBR 649 uses specially selected raw materials, showing high chemical and weathering resistance. It is a glossy varnish of high durability with excellent gloss retention .

TECHNICAL CHARACTERISTICS

TYPE

Aliphatic polyurethane varnish, two pack system.

USAGE

Recommended as a coating for substrates in wood or concrete, and wood deck small boats, exposed concrete floors and concrete.

TECHNICAL INFORMATIONS		
COLOR	Colorless	
FINISH	Glossy	
VOLUME SOLIDS	42 % ± 2	According to ISO 3233
WEIGHT PER LITER	1,030 ± 0,05 g/ml	According to ASTM D 1475
FLASH POINT	32°C	-
MIXING RATIO		Weight Volume
	Comp. A	100,0 4,0
	Comp. B	26,0 1,0
POT LIFE (25°C)	4 h	
INDUCTION TIME	15 to 30 min	
THEORETICAL SPREADING RATE	21,0 m²/l - 20 μm	
WET THICKNESS	48 μm	
DRY THICKNESS	20 μm	
DRYING TIME, for 20 μm		25°C
		Minimum Maximum
	Touch	1 h
	Handle	3 h
	Recoat	6 h 48 h
	Temperature	Should be between 0 to 40°C.
ENVIROMENTAL CONDITIONS	Relative Humidity	Between 30 to 85%
	Dew Point	Surface temperature is at least 3°C above dew point
	Thinner	440.0000
APPLICATION	Brush	It is not necessary dilution.
	Roller	Dilute up to 10% (vol.) with recommended thinner. Must be used solvent resistant roller (sheep wool). The wool must be cutted (small size) to avoid blistering during the application.
	Conventional Spray Gun	Dilute up to 10% (vol.) with recommended thinner. Conventional DeVilbiss JGA 503 FX 704 spray gun or similar. Spray pressure between 2,5 to 3,0 kgf/cm² (35 to 43 psi). Tank pressure between 0,5 to 1,5 kgf/cm² (7 to 21 psi).
	AirLess Spray Gun	Dilute up to 10% (vol.) with recommended thinner. Use nozzles between 9 to 17 and pump pressure between 140 to 175 kgf/cm² (2000 to 2500 psi).

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SURFACE PREPARATION	Wood	Proceed sanding to increase the surface roughness. The surface must be dry, free of contaminants such as salt deposits, oil, grease, fat, dust, etc. and coated with suitable sealant.		
	Concrete	The surface must be dry, free from salt, oil, grease, dust, grease and other contaminants and coated with a suitable sealant. In the case of new concrete, use muriatic acid 10% solution to neutralize it. Afterwards, rinse with plenty of water; wait total drying and apply.		
	Recommended sealant	It can be used directly as a sealer, diluting to 10 % as primer at the first coat.		
	Coated Surfaces	Consult our our Technical Department. The surface must be clean and free of contaminants as oils, fat, grease and dust. Must not present peeling's areas. Proceed light sanding (220) to break the gloss.		
	Recommended TopCoat	Not applicable		
SHELF LIFE	12 months			
UN NUMBER HAZARD NUMBER	1263 33			
IMPORTANT RECOMMENDAT	IONS			
		1. The practical spreading rate of the product varies according to the applied thickness, application method and techniques, type and rugosity of the surface and ambient conditions.		
	_	2. The weight/l, viscosity and drying values were obtained in laboratory at a temperature of 25°C. At an altered temperature, the results might be different from the specified ones.		
	3. Pot life is shortened by higher temperature and by the increase of catalyzed volume.			
	4. Component B consists of isocyanate, which is reactive with moisture in the air. Therefore, every use of the product, close the container as soon as possible so that does not lose its efficiency.			
SAFETY PRECAUTIONS				
	 Improper use and handling of this product can be hazardous to health and cause fire or explosion. Do not use it without first taking all appropriate measures to prevent property damage and injuries. 			
	2. <u>Storage:</u> keep the product in sheltered, well-ventilated areas. Maximum temperature: 40° C. Must not be directly exposed to the sun.			
	3. <u>Flammable:</u> flammable p do not smoke nearby.	3. <u>Flammable:</u> flammable product, which must be kept distant from ignition sources, and do not smoke nearby.		
	4. <u>Inhalation:</u> Avoid breathing vapors, keeping proper ventilation during application and drying.			
	= : : :	rotective clothing and masks, goggles, etc. Do not eat or drink nals to be near the application area.		

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HEALTH HAZARDS

- 1. Skin contact: wash affected area thoroughly with neutral soap.
- 2. <u>Clothing contact:</u> remove clothing and wash it.
- 3. <u>Leakage</u>: Isolate the area, and do not smoke nearby. If large quantity leaked in confined area, wear protective masks. Do not inhale vapors. Stop leakage with sand, sawdust or soil, and transfer liquid and solid to separated recipients for disposal.
- 4. <u>Fire:</u> protect non-affected recipients with water spray. Extinguish fire using carbon dioxide, foam or dry chemical.
- 5. Eyes contact: flush eyes with large amounts of clean water for at least 10 minutes, and get medical attention immediately.

<u>IMPORTANT:</u> For further information consult the product MSDS (Material Safety Data Sheet).