

DESCOGLAS™

100% SOLIDS REINFORCED/RESINOUS WALL AND CEILING SURFACING

Technical Data Sheet

DESCRIPTION:

DESCOGLAS™ is the peerless wall and ceiling system that combines the proven strength of reinforcing fiberglass with a 100% solids, thermosetting, high build resin system. The installed result is a seamless, high performance wall and ceiling finish. DESCOGLAS™ is resistant to harsh chemicals and physical abuse. The system also provides solutions for the many requirements associated with high performance areas, including expensive maintenance costs.

DESCOGLAS™ is a field proven solution for connecting unlike substrates without the use of joints, sealants, and wall and ceiling connections. The approach involves the installation of wide radius corners, both vertical and horizontal, to permit floors and walls to be applied in overlapping layers. The installed result is then seamless, germ impenetrable, and easy to clean.

SYSTEM SPECIFICATION:

Three types of DESCOGLAS™ are available:

- **RF System: Fiber Reinforcement Filled**
Coating includes temperature resistant reinforcement fibers enabling quick, easy application using a roller. DESCOGLAS™ RF System as manufactured by Valspar consists of two coats of DESCOGLAS™ RF and H-400 Hardener. Topcoat with UR-22 EnviroUltra WBU.** Typical RF application thickness: 20 mils DFT.
- **RM System: Fiberglass Reinforcement Mat**
Utilizes special fiberglass cloth and thermosetting resins that are 100% solids. DESCOGLAS™ RM System as manufactured by Valspar consists of four coats of DESCOGLAS™ B.C. Resin and H-400 Hardener. Fiberglass reinforcing cloth is incorporated into the second coat. Topcoat with UR-22 EnviroUltra WBU.** Typical RM application thickness: 21–35 mils DFT.
- **NR System: Non-Reinforced**
Utilizes 100% solid thermosetting resins without the fiberglass reinforcement. NR is recommended for ceilings where abuse is minimal. DESCOGLAS™ NR System as manufactured by Valspar consists of two coats of DESCOGLAS™ B.C. Resin and H-400 Hardener. Topcoat with UR-22 EnviroUltra WBU.** Typical NR application thickness: 12–14 mils DFT.

** Alternative Topcoat: DESCOGLAZE™

TYPICAL PHYSICAL PROPERTIES:

<u>TYPE TEST</u>	<u>TEST METHOD</u>	<u>TYPICAL VALUE</u>
Flexibility	ASTM D-522-88	Passes 1" mandrel without cracking
Volatile Organic Compounds		0 lbs/gal
Impact Resistance	Gardner Impact Tester	> 160 in/lb
Abrasion Resistance	ASTM D-1044-90	0.019 gram loss
Fire Resistance	ASTM E-84-91	Class A: 2.6 oz cloth @ 21 mils max Class B: 5.8 oz cloth @ 35 mils max

ADVANTAGES:

- Seamless surface provides vapor barrier
- Easily cleaned and decontaminated
- Maximum impact & chemical resistance
- No static cling
- May be applied to a variety of substrates
- USDA approved, accepted by the Canadian Department of Agriculture
- Good abrasion resistance
- Not affected by most temperature variations

TYPICAL USES:

- Pharmaceutical & cosmetic manufacturing facilities
- Food & beverage processing facilities
- Health care facilities
- Operating rooms, scrub rooms, intensive care & therapy rooms
- "Clean room environments" for pharmaceutical, animal research & electronic facilities
- Class 10 to Class 1,000 performance areas
- Commercial kitchens, dishwasher & waste disposal areas
- High impact walls

LIMITATIONS:

- This product is not designed for exterior use or immersion.
- Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on *www.valsparflooring.com*.
- Proper material application is the responsibility of the user. Site visits by Valspar personnel are for making technical recommendations only and not for supervising or providing quality control.
- **Do not use over a putty coat.**
- **Do not apply over cementitious substrates containing more than 10% lime by volume.**
- Concrete should not exceed 3% moisture content by mass (ASTM D-183-76).
- Previously applied finishes are subject to practical field evaluation to determine appropriate preparation, primers, etc.
- Store material in a cool, dry area (50-90°F) away from direct sunlight, flame or other hazards.
- Do not apply over honeycombed or structurally unsound surfaces.
- Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Valspar Technical Service.
- Adequate ventilation must be ensured.
- Masonry backings may require cement plaster finish if it is desirable to have the wall in perfect plane.
- Do not thin these products. Addition of thinners will slow the cure and reduce the ultimate properties of the products. Critical recoat times will also be affected.

SURFACE PREPARATION:

- Check moisture by ASTM D-4263. This method is done by taping (2 inch duct tape) a 4 mil clear plastic sheet to the surface. The sheet can remain on the surface for 16-24 hours. After this duration, the plastic sheet should be removed and the underside checked for moisture. If condensation appears on the under side of the film or the concrete becomes visibly damp, the concrete is not dry enough to place the wall system.
- All substrates must be sound, clean, dry and free from all contaminants and form release agents.
- Surface should be checked for soundness and any "hollow" areas should be removed. All depressions or spalled areas and cracks should be prefilled.
- Concrete should have laitance removed by sanding, wire brushing and/or grinding.
- Surfaces should be thoroughly vacuumed to remove surface dirt and dust.
- Surface and air temperature must be a minimum of 55°F during installation and cure.
- Provide sufficient air movement to prevent condensation on surface during installation.
- After suitable preparation has been completed, mask all surfaces that require protection. If cove base is present, mask appropriately. Make certain all areas are covered that could be damaged by overspray.
- For new drywall, CMU or poured-in-place concrete walls, all Descoglas™ systems can be pre-primed as outlined below.

IMPORTANT NOTE: Pre-prime preparation materials must be pre-approved by Valspar Flooring.

<u>SUBSTRATE</u>	<u>PREP MATERIAL</u>
- New drywall	drywall primer*
- Concrete masonry unit (CMU).....	block filler
- Poured-in-place concrete.....	block filler

* Ensure complete saturation of drywall substrate to minimize "soak in" of subsequent DESCOGLAS™ coats.

NOTE: Each subsequent coat must be applied with minimum delay to avoid intercoat adhesion problems. This is particularly true of the DESCOGLAZE™ material over DESCOGLAS™ B.C. Resin and H-400 Hardener.

APPLICATION INFORMATION FOR DESCOGLAS™ RF SYSTEM:

Process Step	Material	Mix Ratio	Theoretical Coverage
Primer	DESCOGLAS™ RF Resin H-400 Hardener	2.25:1	200–225 sq.ft./gal
Body Coat	DESCOGLAS™ RF Resin H-400 Hardener	2.25:1	200–225 sq.ft./gal

Finish Coat Option 1

Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal
Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal

Finish Coat Option 2

Finish Coat	DESCOGLAZE™ Resin DESCOGLAZE™ Hardener	1:1	266–400 sq.ft./gal
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APPLICATION INFORMATION FOR RF SYSTEM:

Prepare substrate according to “Surface Preparation” section of this document, page 2.

Priming:

- Mechanically mix the DESCOGLAS™ RF and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ RF Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8” nap roller.
- Apply at a rate of 200–225 sq.ft./gal. Coverage will vary with porosity of substrate.
- Allow primer to cure minimum 8–12 hours.

Body Coat:

- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ RF Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8” nap roller.
- Apply at a rate of 200–225 sq.ft./gal.
- Allow to cure overnight or until surfaces can be sanded. Sand smooth.
- Imperfections should be filled with an R-90/H-400 and cabosil mixture. Repaired areas should be sanded smooth.

Finish Coat:

- Refer to technical data sheet of chosen finish coat for complete mixing and application instructions.

CURE TIME:

At a temperature of 70°F, allow the systems to cure a minimum of 3 days before use.

Proceed to CLEAN UP, page 6.

APPLICATION INFORMATION FOR DESCOGLAS™ RM SYSTEM:

Process Step	Material	Mix Ratio	Theoretical Coverage
Primer*	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	240-260 sq.ft./gal
Fiberglass Reinforcing	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	180-200 sq.ft./gal
Tie Coat	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	240-260 sq.ft./gal
Grout Coat	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	500-800 sq.ft./gal

Finish Coat Option 1

Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal
Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal

Finish Coat Option 2

Finish Coat	DESCOGLAZE™ Resin DESCOGLAZE™ Hardener	1:1	266–400 sq.ft./gal
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APPLICATION INFORMATION FOR RM SYSTEM:

Prepare substrate according to “Surface Preparation” section of this document, page 2.

Priming:

* For new drywall, CMU or poured-in-place concrete walls, refer to “Surface Preparation” for alternate priming instructions using drywall primer or block filler.

- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ B.C. Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8"-1/2" nap roller.
- Apply at a rate of 240-260 sq.ft./gal. Coverage will vary with porosity of substrate.

Reinforcing and Tie Coat:

- Install materials one hour after priming.
- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ B.C. Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8"-1/2" nap roller.
- Apply at a rate of 180-200 sq.ft./gal.
- Hang the fiberglass cloth utilizing wallpaper-hanging techniques.
- Butt cloth panels carefully or overlap panels and double cut, removing trimmed material.
- Use a broad knife or spring steel trowel to remove air pockets and wrinkles.

- After approximately 2 hours, apply another full coat of blended epoxy at a rate of 240-260 sq.ft./gal to embed fiberglass.
- Use a spring steel trowel or pliable plastic trowel to press the epoxy into the fiberglass; saturate and smooth.
- Allow to cure overnight or until surfaces can be sanded. Sand smooth.
- Imperfections should be filled with an R-90/H-400 and cabosil mixture. Repaired areas should be sanded smooth.

Grout Coat:

- If fiberglass has been properly embedded and smoothed, grouting will be minimal.
- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ B.C. Resin and 1 part H-400 Hardener and mix thoroughly.
- Tightly fill in all irregularities while grouting the entire surface.
- Sand smooth after curing.
- Minor imperfections should be repaired using a gypsum-based grout (less than 5% gypsum).

Finish Coat:

- Refer to technical data sheet of chosen finish coat for complete mixing and application instructions.

CURE TIME:

At a temperature of 70°F, allow the systems to cure a minimum of 3 days before use.

Proceed to CLEAN UP, page 6.

APPLICATION INFORMATION FOR DESCOGLAS™ NR SYSTEM:

Process Step	Material	Mix Ratio	Theoretical Coverage
Primer*	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	240-260 sq.ft./gal
Body Coat	DESCOGLAS™ B.C. Resin H-400 Hardener	2.25:1	240-260 sq.ft./gal

Finish Coat Option 1

Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal
Finish Coat	UR-22 EnviroUltra WBU	Prepackaged Unit	320–530 sq.ft./gal

Finish Coat Option 2

Finish Coat	DESCOGLAZE™ Resin DESCOGLAZE™ Hardener	1:1	266–400 sq.ft./gal
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APPLICATION INFORMATION FOR NR SYSTEM:

Prepare substrate according to “Surface Preparation” section of this document, page 2.

Priming:

* For new drywall, CMU or poured-in-place concrete walls, refer to “Surface Preparation” for alternate priming instructions using drywall primer or block filler.

- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ B.C. Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8"-1/2" nap roller.
- Apply at a rate of 240-260 sq.ft./gal. Coverage will vary with porosity of substrate.
- Use a spring steel trowel or pliable plastic trowel to smooth.
- Allow to cure overnight or until surfaces can be sanded. Sand smooth.

Body Coat:

- Mechanically mix the DESCOGLAS™ B.C. Resin and H-400 Hardener independently using a variable speed drill and Jiffy mixer. Mix for two minutes or until uniform, exercising caution not to introduce air into the material.
- Blend together 2.25 parts DESCOGLAS™ B.C. Resin and 1 part H-400 Hardener and mix thoroughly.
- For roller application, use 3/8"-1/2" nap roller.
- Apply at a rate of 240-260 sq.ft./gal.
- Use a spring steel trowel or pliable plastic trowel to smooth.
- Allow to cure overnight or until surfaces can be sanded. Sand smooth.
- Minor imperfections should be repaired using a gypsum-based grout (less than 5% gypsum).

Finish Coat:

- Refer to technical data sheet of chosen finish coat for complete mixing and application instructions.

CURE TIME:

At a temperature of 70°F, allow the systems to cure a minimum of 3 days before use.

Proceed to CLEAN UP, page 6.

CLEAN UP:

Tools should be cleaned right away with solvents such as Xylol or Xylene. Any cured or hard material can be removed with the use of PC-46 DRY EZE.

REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER SAFETY AND HANDLING INFORMATION.

**See individual labels for more caution statements.
KEEP OUT OF THE REACH OF CHILDREN.**

DISPOSAL:

Dispose in accordance with federal, state, and local regulations. Use licensed hazardous waste company. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

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