

TAKEOFF 2000 - PAINT AND VARNISH REMOVER

TECHNICAL DATA SHEET

Product Description: Takeoff 2000 semi-paste paint and varnish remover is a solvent based product that does not contain Methylene Chloride or MEK. With a blend of waxes and thickening agents the product will chemically seal itself after being applied. This allows the product to stay wet for an extended period of time and remove multiple coats of paint or varnish with one application. The product will remove multiple layers of paint including latex, oil based, enamels, epoxy, cold tar epoxy, eucopoxy, urethanes, polyurethane, shellac, varnish, lacquer, elastomeric, clear coats, and alkyds. Takeoff 2000 Semi-paste may not effect certain coatings such as buttermilk paint, blood paints and some plastic coatings. Takeoff 2000 can be used to remove paint & coatings from wood, metal, brick, concrete, fiberglass, glass and stone. Takeoff 2000 is a very effective product for the removal of graffiti from the surfaces listed above. Takeoff 2000 is safe for all metals and will not cause corrosion.

No Neutralizing: Many strippers on the market require neutralizing of the stripped surface prior to recoating. If not done correctly a failure of the new coating will result. This is especially true of Methylene Chloride and Caustic strippers. This is not true of Takeoff 2000. Takeoff 2000 does not need to be neutralized after use. It will not interfere with the new coating. Remove the stripper and coating, clean the surface, let it dry and you are ready to recoat.

Safety Precautions: Before using this product read the Material Safety Data Sheet and Container Labels. Always use as directed and in accordance with Federal, State, Local, OSHA and EPA laws. Protect workers from high levels of vapors. Takeoff 2000 is a flammable product and precautions must be used. Eliminate all ignition sources. Do not use with electrical or other spark producing, grinding, blasting, or buffing equipment. Wear Neoprene gloves, safety goggles and respirator. Avoid skin & eye contact. Accidental skin contact will not cause burns or blisters.

Physical Characteristics:

Thick Semi-paste liquid.

Color - Blue

pH - Neutral

VOC's - 185 g/L

Shelf life - Indefinite

Solubility in water - 75%

Freezing Point - N/A

Flash Point - At temperatures greater than 48°F, the product did not flash. At temperatures greater than 48°F, the product is flammable but did not flash. The product is designed to be used

at temperatures above 48°F. When tested at temperatures less than 48°F the product flashed at 30°F.

COVERAGE RANGE: The coverage range of Takeoff 2000, using spray equipment, varies depending on the coating being removed and the millage of the coating. For thin coating such as one or two coats of paint on flat metal, coverage will be 100 square feet per gallon. For very heavy coatings such as 30 coats of lead paint, typical coverage will be 50 square feet per gallon.

Testing Takeoff 2000 before use: Before beginning the stripping job always test the project. Apply Takeoff 2000 to a small inconspicuous area. Brush, spray or with a putty knife, apply Takeoff 2000 Semi-paste about 1/16 to 1/8 inch thick to the surface. Note the time the test was started. Every 20 to 30 minutes take a scraper and scrap a small area to check the progress of the remover. Repeat this process until the coating being removed is completely soft and the substrate can be seen. Some very thick coatings or very hard coatings may require more time. Keep in mind that each job is different. Various coatings applied to various substrates (wood, metal, brick, concrete, etc.) will require different dwell times. Dwell time (the time it takes to work), can range from 10 minutes to 5 hours depending on the type of coating, the number of coats, the substrate, the type of primer under the coating and what has happened to the coating over the years such as exposure to sunlight, heat, cold etc. Let the chemical do the work. As long as it is wet to the touch the semi-paste will continue to soften the coating.

Surface preparation: Surfaces must be dry and clean from dirt, oil, grease, and debris.

Application Procedure: Apply Takeoff 2000 to the coating by brushing, troweling or spraying. If applying by brush do not apply as you would paint. Use the brush to lay the product on the surface. Lay on an even coat of 1/16 to 1/8 of an inch thick. The product may be troweled on especially if using a slotted trowel.

The recommended application method is to spray the product. Spraying Takeoff 2000 provides even coverage, better skinning effect, use of up to 75% less product, and coverage into intricate areas not accessible to brushing. When sprayed with the correct equipment, Takeoff 2000 will provide an even coat which will skin over, trapping the volatile organic compounds, forcing them into the coating, providing the stripping action.

Takeoff 2000 does not require covering with sheets of plastic or paper after application.

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Conventional spray systems: Recommended spraying equipment. For medium size jobs a paint pot with spray gun

attached with hoses is recommended. A typical setup would be a two gallon Devilbiss paint pot attached to DeVilbiss JGA -510-765FF spray gun. The paint pot usually comes with plastic liners in the pot which make for easy clean up. For the air lines used good quality lines of at least 3/8 inch or larger. For the product line between the pot and the spray gun, use a solvent resistant line. A common line is called paint line which has a nylon inter lining and will work well with Takeoff 2000.

The most common mistake made when selecting spray guns is the size of the spray gun orifice. Most people will select an orifice which is too large because of the viscosity of the product. Yes, Takeoff 2000 is thick but it will spray very nicely through a small orifice. A typical orifice size for this setup is about .055 inches. Typical pressure setting will be about 70 psi of air to the gun and about 40 psi on the paint pot. Keep the hose length between the paint pot and the spray gun short, about 10 to 12 feet. The air line between the air source, (typically an air compressor) can be long. Keep the air compressor away from the work area especially if it is powered electrically.

Hold the spray gun 12 to 14 inches from the surface. Spray in a back and forth motion overlapping the area previously sprayed. Most spray applications will be applied 1/16 to 1/8 inch thick. Do not disturb Takeoff semi-paste until it is ready for removal. This is determined by the test patch done prior to the application. If the skin that forms on the top of the semi-paste is broken, the product will dry out before it has a chance to soften the coating. Some paints or coatings will bubble or blister. Some will only get soft. Once again, refer to your test patch. When the coating has softened all the way to the substrate, it is time to remove the coating.

Air Assisted Airless System: For large jobs very good results have been achieved by using air assisted airless spray equipment. A typical system would be a system by Graco such as the APlus Air-Assisted Airless Pail-Mount Sprayer. This is an expensive professional system powered by a 23:1 Monark pump which produces very high pressures. Use in accordance with the manufacturers instructions.

Spray Equipment Cleanup: On a job which continues the next day, the typical system does not need to be cleaned. Just shut it down one day and continue the next day. If the spray system is not going to be used for several days, flush and clean the system with Takeoff Liquid stripper.

Surface Cleanup: After use, if residue of the coating is still present, use Takeoff Liquid stripper and scrub with nylon pad, (3M Scotch Brite). This will pull the coating out of the pores and provide a clean surface.

PRODUCT DISPOSAL: Consult the manufacturer or your local distributor. Dispose of in accordance with all local state and federal regulations.

Removal of TAKEOFF 2000:

Wood: For wood surfaces, use a good quality scraper. The best method is to use a Takeoff scraper. This is a sharp stainless steel scraper which you pull instead of push. This allows excellent scraping without gouging the wood. Always follow the grain of the wood when scraping. After the semi-paste stripper and the coating has been removed some residue may remain in the pores of the wood. If a cleaner surface is needed remove this residue using Takeoff Liquid stripper and a nylon scouring pad (3M Scotch-Brite number 6444), in a scrubbing motion. Keep the surface wet with the Takeoff Liquid stripper. Wipe with paper towels or rags. Remember to keep the surface wet while cleaning and to always work with the grain of the wood. After cleaning the wood in this manner you are finished. There is no neutralizing and little or no sanding required. The surface is ready to recoat.

Metal, concrete, masonry or stone: These surfaces can be scraped especially if they are flat. Another method is to blast the surface after the coating has been softened by Takeoff 2000. Warm water at pressures ranging from 1500 to 3500 psi works well. Tip sizes vary when water blasting. It is recommended to test various tip sizes and pressure settings for each job. Caution when blasting wood surfaces. Use lower pressures to keep from furring or shredding the wood surface. Various media can be used when blasting. Caution: do not use blast media that can create sparks. Remember Takeoff 2000 is a flammable product and could burn.

Plaster: Takeoff 2000 is great for removal of all kinds of paint from plaster. It does not harm plaster. Use a razor scraper or Takeoff scrapers when scraping plaster.

Availability: Call Takeoff Inc, at 1-800-765-1822 for location of nearest distributor. MSDS sheet and literature are available upon request.