

Primer 205HT **High Temperature Vinyl Ester Primer**

Surrounding You with Exceptional Protect	Tion	ign Temperature vinyi Ester Primer
PRODUCT DESCRIPTION		
	for steel, concrete and other su concrete, steel and other su International vinyl ester coatings temperature properties are ide temperatures exceeding the ca	omponent, Vinyl Ester resin based primer bstrates as specified. It is used to prime bstrates prior to application of Blome s, linings and polymer concretes. Its high eal for vinyl ester topcoats subjected to apabilities of standard Primer 205. Quick the appropriate topcoat material. Primer esion to steel and concrete.
GENERAL USES		
		as a primer in conjunction with Blome s in a wide variety of applications. Typical ngs
HANDLING CHARACTERISTICS		
	 component kits. It is easily wetting characteristics and I Blome Primer 205HT is nor gallon on concrete and other 	mally applied at 250-300 square feet per
TYPICAL PROPERTIES		
WET		
	Color:	Amber
CURED	Gel Time at 70°F (200 g):	40-60 minutes (less at higher mass/temperatures)
UUUUU	Tensile Strength:	8.750 psi
	Tensile Elongation:	4%
	Bond Strength to Steel:	>1,500 psi
	Adhesion to concrete:	Failure in concrete
	Water absorption:	Very low, 0.15%
	Heat Deflection Temperature:	300°F
	VOC (Measured):	
	VOC Category:	-
		Coating

*Complies with SCAQMD VOC category limit for an Industrial Maintenance Coating

PACKAGING & STORAGE

Blome Primer 205HT is packaged in 1-gallon and 5-gallon kits. Each component is pre-measured and ready to use. Store unopened components in a dry place, out of direct sunlight and protected from the elements. Storage temperature should be 50-60°F. Properly stored, Blome Primer 205HT will have a minimum shelf life of 3 months. Refer to the date of manufacture printed on the label.

SPECIFICATION GUIDE

Prime all surfaces with a two-component, high elongation vinyl ester primer meeting the generic formulation and performance characteristics of Blome Primer 205HT as manufactured by Blome International, O'Fallon, MO (636) 379-39119. Install in accordance with the latest data sheet for Blome Primer 205HT.

APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS

Blome Primer 205HT should be applied at surface and air temperatures of 50°F minimum and 95°F maximum. Air temperature should always be at least 5°F greater than the dew point. Primer 205HT should be applied when the ambient air and substrate temperature is stable or descending to avoid pinholes and bubbles due to concrete outgassing.

JOBSITE STORAGE OF MATERIALS

Proper storage of Blome International products is important to a successful application. Follow these general storage procedures:

- 1. Store components (Resin and Catalyst) unopened, at 50-60°F, out of direct sunlight and protected from the elements.
- 2. Keep away from heat and flame. 24 to 48 hours prior to use, adjust the storage temperature to 70-85°F to facilitate handling.

SURFACE PREPARATION-STEEL

The following recommendations generally apply to the proper surface preparation of steel for Blome Primer 205HT but consult the data sheet of the Blome overcoat material for any additional or superseding requirements for surface preparation.

- 1. Steel substrate must be free of all oil, grease, dirt, dust, mill scale, rust, existing coatings and other contamination.
- 2. All welds must be smooth and continuous. All weld splatter, buckshot, laminations, and slivers must be removed and ground smooth.
- 3. Undercuts and pinholes must be filled with weld metal and ground smooth.
- 4. Abrasive blast in accordance with SSPC-SP 5 White Metal Blast Finish (NACE No. 1) and 3-mil dense, sharp anchor profile.

SURFACE PREPARATION-CONCRETE

The following recommendations generally apply to the proper surface preparation of concrete for Blome Primer 205HT but consult the data sheet of the Blome overcoat material for any additional or superseding requirements for surface preparation.

- Concrete should be adequately cured, possess adequate integrity and not be expelling excess water of hydration. A rule of thumb for cure of new concrete is 28 days cure at 70°F but that is not an assurance that the concrete has achieved adequate physical properties.
- 2. Concrete should exhibit a compressive strength of 3,000 psi minimum and tensile strength of 300 psi or higher. Ground slabs and new concrete should be tested for excess moisture in accordance with

	 ASTM D 4263 Plastic Sheet Test Method; any water on the backside of the sheet after overnight exposure is an unacceptable surface for coating. We recommend utilization of a low water-cement ratio, preferably 0.38, and adequate superplasticizers for placement is recommended, particularly when cure time to coat is critical. New concrete must also be free of curing compounds, form release agents and any other contamination that might inhibit adhesion. Old concrete must be free of existing coatings or toppings and any loose or unsound concrete must be removed. All concrete must be cleaned, as necessary, in accordance with ASTM D 4258. The resultant surface should be free of all oil, grease, and other contamination. Consult Blome International for special procedures for oil contaminated surfaces. Upon completion of cleaning, the concrete surface shall be prepared in accordance with ASTM D4259. The resultant surface should be free of all oil strate should be free of laitance and efflorescence and have a surface texture similar to medium (60-80) grit sandpaper.
	8. Concrete must be dry prior to application of Blome Primer 205HT. Consult Blome International for applications over damp substrates.
MASKING & PROTECTION	Mask or remove adjacent surfaces and equipment that are not to be lined and all termination points.
APPLICATION EQUIPMENT	Blome Primer 205HT may be easily applied by brush, roller or spray. Since brush application is often for small areas or touchup, disposable china bristle brushes are recommended. Roller covers should be phenolic core roller suitable for solvent based coatings and the nap thickness should reflect the texture of the substrate. Blome205HT may also be applied by spray using airless spray equipment. A 30 to 1 ratio pump, 3/8" ID material line and a Graco Silver Gun are suggested.
MIXING TECHNIQUE	We recommend using Jiffy type mixers for all mixing and stirring. When operating the mixer, avoid plunging it up and down in the bucket. This can fold air into the resin, which may cause bubbles to form in the coating after it has been applied. Be careful not to allow water to enter the mix.
WORKING TIME	The working time for Blome Primer 205HT is 20-25 minutes at 70°F in 1- gallon kits. Working time will be longer for cooler temperatures and will be much shorter at higher temperatures. Larger kit sizes will also reduce working time.
MIXING & APPLICATION	 Add the Catalyst to the Resin and thoroughly mix for 2-3 minutes. Uniform mixing is critical to uniform curing of the applied film. Apply Blome Primer 205HT at a uniform thickness using the application method of choice. If applying by spray to concrete surfaces, backroll to ensure adequate wetting of the substrate. Remove any excess primer and ensure that no resin puddling is present. Allow primer to cure hard or overnight before applying topcoat. Do not apply topcoat over Blome Primer 205HT while primer is still tacky.

TOUCH-UP & RECOATING	Blome Primer 205HT may be recoated with itself or top-coated without special surface preparation within 48 hours. Beyond 48 hours, light sanding to de-gloss is recommended before re-priming or top-coating.
CLEAN-UP	Before Blome Primer 205HT gels, it can be cleaned from hand tools and equipment using MEK or acetone. Spray equipment should be flushed periodically and at days end with solvent to avoid gelling in the equipment and hoses. Follow the equipment manufacturer's recommendations for proper cleaning and care instructions. After Blome Primer 205HT gels, stronger solvents will be required for cleaning. Use chlorinated solvents if flammable solvents are not allowed.
CAUTION	Blome Primer 205HT Resin and Catalyst and mixes of them present various health hazards if handled improperly. Read and abide by the safety label on each unit and refer to the Safety Data Sheets for specific hazards.
WARRANTY	We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the

non-conforming goods.