

# DURA<sup>®</sup> (VCT) Micro-Bonding Finish

## High Gloss, Stain & Wear Protection

### DATA SHEET

A revolutionary finish technology designed to improve the overall appearance, performance and longevity of flooring surfaces.

#### PRODUCT DESCRIPTION:

DURA<sup>®</sup> (VCT) Micro-Bonding Finish

FORMULATED WITH NANO-TECHNOLOGY THAT MOLECULARLY BONDS AND IMPREGNATES THE SURFACE – PROVIDING ULTIMATE SUSTAINABILITY.

DURA<sup>®</sup> VCT is a non-streaking, fast curing, extremely durable flooring treatment that penetrates, seals and protects. This water-based formula is environmentally preferred, VOC compliant, and easy to apply. When burnished with a diamond-impregnated pad it forms an extraordinarily clear, reflective, high gloss micro-film that will not yellow, peel, blister or flake off. This high performance formula has excellent stain and scratch resistance providing a sustainable, long lasting surface that is easily maintained with reduced labor hours.

DURA (VCT) is perfect for high traffic floors; requires minimal maintenance and no stripping for subsequent applications. DURA (VCT) has almost no odor, dries quickly, is nontoxic, nonflammable, and improves slip resistance making it the smart choice for all types of resilient floors including vinyl, vinyl composition, rubber, linoleum, asbestos and asphalt tiles.

If you're a facility owner, architect, interior designer, corporate specifier or BSC maintenance contractor, experience our products first-hand. Just call 1-800-775-3506 or visit [www.vctfloorcare.com](http://www.vctfloorcare.com) for more solutions.

performance • longevity • multipurpose • impressive



LAD

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**TAF 133<sup>®</sup>** Hybrid Inorganic  
Micro-Bonding Polymer  
Nano Technology

**THE SCIENCE**

DURA® VCT is built upon the TAF133® technology which incorporates a hybrid of inorganic micro-bonding polymers and binders that deposit micro-dispersions into the voids of the VCT which chemically cure and cross-link to the substrate. The benefit—extreme durability, sustainability, and lowered maintenance costs.

The application of each coated layer will bond to itself thereby eliminating the need to strip between applications. Since each application is only 3u – 5u (u=microns), most applications will only require two (2) coats. An additional third coat may be desired on certain floor surfaces.

**WHERE IT IS USED**

DURA (VCT) Micro-Bonding Finish may be used on all types of resilient floors including vinyl, vinyl composition, rubber, linoleum, asbestos and asphalt tiles. DURA (VCT) is perfect for high traffic floors; it requires minimal maintenance and no stripping for subsequent applications. DURA (VCT) has almost no odor, dries quickly, is nontoxic, nonflammable, and improves slip resistance making it the smart choice for:

Schools	Warehouses	Cafeterias
Hospitals	Grocery stores	Banquet halls
Retail establishments	Nursing homes	Bakeries

**ADVANTAGES**

- Leaves an elegant, sustainable, long-lasting reflective surface
- Reduces labor hours and is easily maintained
- Lowers total cost of ownership
- Environmentally preferred; VOC compliant
- Easy-to-use, water-based formula
- Resists wear patterns
- Superior clarity, will not peel, flake, fade, or yellow
- Easy to repair or recoat; no stripping required
- Non-streaking, fast curing protective treatment
- Imparts high gloss reflectivity when burnished
- Easy to remove scuffs and scratches
- Heavy-duty protection against stains
- Interior use only

**BENEFITS**

- Durability, with improved maintainability
- Environmentally preferred
- Sustainable long-lasting finish that NEVER requires stripping
- Low learning curve utilizes existing personnel resources for easy application
- Less “down-time” – floors are fully serviceable within an hour after application
- No odor and no stripping after initial application; eliminates nuisance disruptions
- Simple maintenance reduces labor hours
- Increased customer satisfaction —long lasting luster, scuff resistant, looks great
- Reduced effects on the environment; eliminates the waste of floor stripping
- Remains clean and clear for a long lasting and beautiful floor
- Lowers management cost through reduced labor

**USE & TECHNICAL SPECIFICATION**

**PACKAGING:**            5 Gal Plastic Pail 45.35 lbs 20.6 kgs  
                                 55 Gal Drum 499 lbs 226 kgs  
                                 275 Gal Tote (IBC) 2495 lbs 1131 kgs

**COVERAGE / TREATMENT YIELD\***

2,500 ft.2 per gallon on VCT surfaces —\*Coverage rate will vary with vinyl substrates and finishes. (Test estimated coverage on all types of resilient floors including vinyl, vinyl composition, rubber, linoleum, asbestos and asphalt tiles.)

**DRYING TIME**

One hour

**PHYSICAL PROPERTIES**

Form opaque, cloudy white, aqueous solution  
TAF133 8%  
Total Solids 23%  
Active Ingredients: 100% of total solids  
Specific Gravity: 1.09  
pH 11.5  
Film Yes (Micro-Bonding Nano-Film)  
Flash Point: None  
V.O.C. Content Less than 50 gms/L  
Freeze point 32°F(0°)  
Abrasion Resistance excellent  
Depth of Surface impregnation 2-8mm (dependent on vinyl surface substrate)  
Shelf Life 6 months in factory sealed container

**TECHNICAL DATA**

Water Resistance ASTM Method D-870		
Blistering		Pass
Loss of Adhesion		Pass
Discoloration		Pass
Solvent Resistance ASTM Method D-2795		
Gasoline		Pass
Motor Oil		Pass
Pull-Off Adhesion ASTM Method D-2795		
VCT Dry		850
VCT Wet		635
Abrasion Resistance ASTM Method D-4060		
Weight Loss (mg)		80
Wear Index		80
Flexibility ASTM Method D-522 1/4"		
Coefficient of Friction		
(English XL variable incidence tribometer)		
Dry Test Specimen		
VCT Uncoated (Control Sample)		.69
VCT Wax Coated		.60
Taf133 Coated		.69
Wet Test Specimen		
VCT Uncoated (Control Sample)		.30
VCT Wax Coated		.25
Taf133 Coated		.45
Water Vapor Transmission Test		
grams/hour/meter <sup>2</sup>		
Control Sample (Open cup)		49.38
Taf133 Coated VCT Tile		39.35
Total Volatile Organic Compounds (TVOC)		<15g/L

**WHERE TO USE**

Schools	Retail establishments	Bakeries
Colleges	Industrial process	Banquet halls
Hospitals	Grocery stores	Cafeterias
Nursing homes	Warehouses	

## **DIRECTIONS FOR USE**

DURA (VCT) is a long lasting finish which improves the durability of vinyl flooring. Floor is never out of service for more than one hour

**Note:** Instruction below is for reference purposes only. Please follow label instructions. For more information request our "Applications Guidelines."

Where to use: DURA (VCT) is perfect for high traffic floors; requires minimal maintenance and no stripping for subsequent applications.

DURA (VCT) has almost no odor, dries quickly, is nontoxic, nonflammable, and improves slip resistance making it the smart choice for all types of resilient floors including vinyl, vinyl composition, rubber, linoleum, asbestos and asphalt tiles. Always read and follow label instructions and precautions for use.

Professional Use Only. Test in a small inconspicuous area to determine ease of application and desired results.

## **APPLICATION INSTRUCTIONS**

1. Thoroughly strip and clean the substrate so it is free of all wax and sealer residue. Allow the surface to dry before proceeding.
2. Mix, shake or stir thoroughly before applying.
3. Apply DURA (VCT) using a micro fiber pad or similar pad, spreading material thinly and evenly so as to completely cover the substrate. Spread at a rate of 1500-2000 square feet per gallon depending on porosity of the tile.
4. Apply three coats of Taf133 or as needed until the desired results are obtained. This process will build a stain resistant microfilm over the tile. Allow each application to dry at least 30-60 minutes between coats.
5. Use propane or electric buffer/burnisher with 1500 grit Scotch-Brite™ Sienna Diamond Floor Pad or Hogs Hair pad (after third coat has dried at least 30 minutes) to polish floor surface.
6. Maintain floor luster using same method as listed above when desired.
7. Reapply coating to worn areas, as needed, after cleaning surfaces with mop or auto scrubber.

## **TECHNICAL SERVICES**

A staff of trained service personnel offers assistance and technical support. For technical assistance, contact our Technical Service Department:

Customer Care Toll Free (800) 775-3506

Email: [technicalservice@ladllc.com](mailto:technicalservice@ladllc.com) or go to: [www.vctfloorcare.com](http://www.vctfloorcare.com)

**CAUTION**

Avoid contact with steel, glass, aluminum, or painted surfaces.

Avoid contact with mucus membranes.

Traffic cable in one hour. Final curing may take up to seven (7) days to develop, depending on temperature and humidity. Do not allow standing water or puddles of water to be left on the surface.

Keep clean using an auto scrubber.

**FOR INDUSTRIAL USE ONLY**

Not for sale to or resale to the general public. For professional use only

**FOR MEDICAL EMERGENCIES ONLY,**

Call Infotrac (800) 535-5053 • Outside USA (352) 323-3500

**WARRANTY**

LIMITED WARRANTY NOTICE: Every reasonable effort is made to apply LAD, LLC's exacting standards both in the manufacture of our products and in the information that we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, LAD, LLC MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and LAD, LLC shall have no other liability with respect thereto.

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## **HEALTH AND SAFETY PRECAUTIONS**

DURA (VCT) is an aqueous micro-bonding solution that uses proprietary compounds. The treatment is alkaline and may cause eye and skin irritation. KEEP OUT OF THE REACH OF CHILDREN. Do not take internally. Avoid prolonged contact with skin. Avoid ingestion of material. If swallowed, do not induce vomiting – call physician. Avoid contact with eyes. Protective clothing is recommended. Protective goggles are recommended in case of splashing. If splashed in eyes, wash immediately with clean water and call physician if irritation persists. Contact areas should be thoroughly washed with soap and water. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet. DURA (VCT) will bond to most surfaces - immediately wash off over-spray with water and mild detergent. Caution: Surfaces wet with DURA (VCT) may be slippery.