

TECHNICAL DATA SHEET

DESCRIPTION:

FULL AUTO is an epoxy coating system of uncompromising quality; low viscosity creates vivid colors and a high-shine finish. It features superior performance in regards to both its physical appearance as well as chemical properties.

ADVANTAGES:

This dense surface is ideal for any interior applications due to its remarkable resistance against bacteria and moisture, as well as the low VOC content. Cleaning won't be a hassle either - with multiple layers that adhere excellently one another, this product easily makes maintenance simple. Plus, it's highly adhesive properties allow secure application on firm hard coatings or bonding of substrates!

SURFACE PREPARATION:

OLD CONCRETE: Old concrete must be extensively prepared for application of FULL AUTO. BLASTRAC, sand blasting or diamond grinding with 30 grit abrasive is essential to remove any contaminants from the surface and oils/fats need to be completely removed beforehand. For optimum adhesion, acid etching (followed by thorough rinsing) should also take place prior to primer use - however no product should ever be applied over wet substrates as this can significantly reduce efficacy of results obtained. Before proceeding it is also important that chloride levels, moisture content and pH are all tested in order ensure a successful outcome.

NEW CONCRETE: To ensure superior strength and durability, it is important that the new concrete should be given a minimum of 30 days to cure. After 28 day curing period, its compressive resistance must meet the required standard of 25 MPa (3625 lb/inch²) while traction resistance should reach at least 1,5 MPa (218 lb/in²). To optimize results after curing process finishes, surface laitance generated during this phase can be effectively removed using BLASTRAC sand blasting or diamond grinding with 30 grit coarseness as well as acid etching. Additionally applying primer prior to coating will prevent out-gassing and guarantee proper adhesion on both surfaces involved in application.

MIXING:

Adhere to the necessary steps for a successful project by pre-conditioning materials at 50°F (10°C). Separately mix each component, then blend together using 2A:1B volume ratio. Mix both components with diligently slow revolutions from 300 - 450 rpm for one full minute and scrape container walls/bottom once or twice to ensure homogeneousness of mixture. Lastly, make sure before you begin that your pot life can accommodate quantity preparing!

APPLICATION:

Ensure a tight, uniform coating on the surface by applying mixed product with a rubber rake and rolling it out. Avoid pooling to achieve optimal results.

CLEANING:

Cleaning and preparing your tools and materials is essential when working with epoxies. Once the product has dried, you may only be able to remove it through mechanical techniques such as scraping or sanding - so make sure that proper safety precautions are taken! Be sure to wash hands thoroughly with warm soap before beginning work, in order for them to remain clean throughout.

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PACKAGING	3 US gal (11.35 L)	
COLOR	PART A: Clear PART B: Clear to amber	
RECOMMENDED THICKNESS	PRIMER (SINGLE SHOT)	FINISH COAT (SINGLE SHOT)
SOLID COLOR	10 mils (150 ft ² /gal)	16 mils (100 ft ² /gal)
FLAKES SYSTEM	10 mils (150 ft ² /gal)	13 mils (120 ft ² /gal)
METALLIC SYSTEM	10 mils (150 ft ² /gal)	40 mils (40 ft ² /gal)
SHELF LIFE	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.	
MIX RATIO, BY VOLUME	A:B = 2:1	
MIX RATIO, BY WEIGHT	Clear: A:B = 100:41-48 Colors: A:B = 100:39-45 With quartz sand : A:B = 100:50 Mixture = 200	
POT LIFE 16 OZ (454 G)	40-50 minutes @ 77°F (25°C)	
OPEN TIME ON SUBSTRATE	45-60 minutes	
VOC	75.4 g/L	

PROPERTIES

@ 73°F (23°C) AND 50% R.H.

SOLIDS CONTENT, BY VOLUME	100%			
SOLIDS CONTENT, BY WEIGHT	100%			
DENSITY (KG/L)	PART A	PART B	MIX	
CLEAR	1.15	0.9 - 1.0	-	
COLOURS	1.15	0.9 - 1.0	-	
THINNER RECOMMENDED	Xylene			
WAITING TIME/ OVERCOATABILITY	SUBSTRATE TEMPERATURE	MINIMUM	MAXIMUM	
BEFORE APPLYING FULL AUTO OVER PRIMER	> 50°F (10°C)	24 hours	3 days	
	> 68°F (20°C)	12 hours	2 days	
	> 86°F (30°C)	6 hours	1 day	
BEFORE APPLYING SECOND COAT OF FULL AUTO	> 50°F (10°C)	30 hours	3 days	
	> 68°F (20°C)	24 hours	2 days	
	> 86°F (30°C)	16 hours	1 day	
CURING DETAILS	SUBSTRATE TEMPERATURE	FOOT TRAFFIC	LIGHT TRAFFIC	FULL CURE
	> 50°F (10°C)	30 hours	5 days	10 days
	> 68°F (20°C)	24 hours	3 days	7 days
	> 86°F (30°C)	16 hours	2 days	5 days
SERVICE TEMPERATURE	-4°F to 122°F (-20°C to 50°C)			

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BOND RESISTANCE (PSI), ASTM D4541	> 300 (substrate ruptures)
PERMEABILITY (%), ASTM D570	0.1%
HARDNESS (SHORE D), ASTM D2240	85-90
ABRASIVE RESISTANCE, ASTM D4060 (CS17 / 1000 CYCLES / 1000 G)	0.10 g
VISCOSITY @ 77°F (25°C)	Mix: 489 cPs
TRACTION RESISTANCE (PSI), ASTM D638	6500
COMPRESSIVE STRENGTH (PSI), ASTM D695	14000
FLAMMABILITY	Class I (Not considered Flammable, Flash Point > 199.4°F (93°C))
ELONGATION (%), ASTM D638	6.7
RESISTANCE TO MOLD GROWTH, ASTM D3273	Rated 10 (highest resistance)
RESISTANCE TO FUNGI GROWTH, ASTM G21	Rated 0 (no growth)

* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

RESTRICTIONS:

The ideal temperature range for coating application and curing is between 50°F - 86°F (10°C - 30°C) with a relative humidity not to exceed 85%. Substrate temperatures should be at least 5.5°F (3°C) above the dew point, while ensuring moisture content in substrates remains lower than 4 % when applying material. It's important that coatings are never applied on porous surfaces where transfer of humidity may occur during placement process; exterior use on ground level substrates, as well as exposure to regular ultraviolet light must also be avoided prior to completion of initial 24 hour curing period following protection from condensation and contact with water drops or streams.

HEALTH & SAFETY:

Prolonged contact with this product may cause skin irritation and heavy eye contact should be avoided to prevent serious burns. It is essential to wear safety glasses, chemical-resistant gloves and a NIOSH/MSHA approved breathing apparatus when handling Components A & B which contain toxic ingredients. In case of exposure, please wash affected areas with water immediately for 15 minutes in the event of an eye contact or remove contaminated clothing if there are any respiratory problems before seeking medical attention followed by ensuring adequate ventilation at all times.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE:

BallistiX is committed to providing accurate and reliable statements, recommendations, and technical information. However it's important for users of the product to consider how its compatibility with other materials may affect performance before use. BallistiX offers a replace or refund policy in case any dissatisfaction occurs; but will not assume legal responsibility for any direct damages which may occur as result of using this data.