

ELITE HDC

27.08.2014

IMRON® FLEET LINE ELITE HDC HEAVY DUTY COATING

DESCRIPTION

High solids 2-component solid colour topcoat from the Imron® Fleet Line system specially developed to provide a robust performance when applied on complex structures like truck chassis, trailers, construction and agricultural vehicles.

Composition based on a unique, patented "star" polymer technology.

PRODUCTS

PT	PowerTint®
EL560	Elite HDC Binder
ET645	Activator HS Fast
ET650	Activator HS
ET655	Activator HS Slow
ET745	Thinner Fast
ET750	Thinner
ET751	Special Application Thinner
ET755	Thinner Slow
ET740	Accelerator

PROPERTIES

- Gives excellent appearance, very good hiding and low consumption.
- Gives a high gloss finish and has fast drying properties.
- Offers a large application window providing an extremely good sagging resistance through specific rheology control.
- Can easily be applied in 1 or 1.5 coat on various complex structures like chassis, trailers, construction and agricultural vehicles, etc.
- Can be used for spot, panel and overall repair.
- VOC compliant, conform with directive 2004/42/EC.

SUBSTRATES


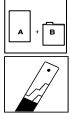








- All OEM finishes, Imron® Fleet Line primer-surfacers or Imron® Fleet Line surfacers.

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PRODUCT PREPARATION

	Cromax® colour tools	See colour formula.					
	Mixing ratio (1)		Fast	Standard	Slow	Airless/Airmix/ Electrostatic	
	Imron® Elite HDC		3	3	3	3	
	ET645		1	-	-	-	
	ET650		-	1	-	-	
	ET655		-	-	1	1	
	ET745		0.4-0.7	-	-	-	
	ET750		-	0.4-0.7	-	-	
	ET751		-	-	-	-	
	ET755		-	-	0.4-0.7	until 28-32 s DIN 4	
	VOC	420 g/l					
	Pot life at 20°C	ET645	3 hr	-	-	-	-
		ET650	-	3 hr 30 min	-	-	-
		ET655	-	-	4 hr	-	1 hr
	Spray viscosity at 20°C	DIN 4 FORD 4	19-25 s 20-26 s				
	Spray equipment		Fluid tip	Distance	Pressure		
	Compliant guns				According to supplier's specifications		
	Gravity feed		1.3-1.6 mm	10-15 cm			
	Suction feed		1.5-1.8 mm	10-15 cm			
	Pressure feed		1.0-1.2 mm	10-15 cm			
	Conventional guns				3-4 bar		
	Gravity feed		1.4-1.6 mm	15-20 cm	3-4 bar		
	Suction feed		1.6-1.8 mm	15-20 cm	3-4 bar		
	Pressure feed		1.0-1.2 mm	15-20 cm	3-4 bar		
	High pressure guns		Fluid tip	Pump pressure	Atomisation pressure		
	Airless		0.23-0.28 mm	± 200 bar	-		
	Airmix		0.23 mm	± 100 bar	4 bar		
	Electrostatic		0.23-0.28 mm	± 100 bar	3.5 bar		
	Number of coats	Good hidrs: 1-1.5 Poor hidrs: 2					
	Flash time	Good hidrs: 0-5 min between coats when applying 1.5 coats. Poor hidrs: minimum 15 min between coats when applying 2 coats. 15 min before bake.					
	DFT	50-70 µ					
	Drying		ET645		ET650		ET655
			20°C	30 min x 60°C	20°C	30 min x 60°C	20°C
	Dust-free		40 min	imm.	40 min	imm.	1 h
	Dry to handle		5 hr	imm.	5 hr 30 min	imm.	6 hr 15 min
	Tape-free		5 hr	after cool down	6 hr	after cool down	6 hr 30 min
							after cool down
	IR drying*	Flash time	10 min		* Guideline for short/medium wave IR equipment.		
	Distance	80 cm					
	Half power	5 min					
	Full power	10-15 min					

This data relates only to the material designated herein and does not apply to use in combination with any other material or any process. The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use.


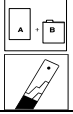







Note: The different activators and thinners can be intermixed to obtain the best possible system for the ambient temperature and the size of the surface to be painted.

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PRODUCT PREPARATION - ACCELERATED - ET740

ACCELERATED SYSTEM FOR MULTI-TONING AND SMALL SURFACES - Imron® Elite HDC					
	Cromax® colour tools	See colour formula			
	Mixing ratio	Imron® Elite HDC ET645/ET650 ET740	Accelerated 3 1 0.4-0.7		
	VOC	420 g/l			
	Pot life at 20°C	ET645 ET650	30 min 45 min		
	Spray viscosity at 20°C	DIN 4 FORD 4 AFNOR 4	19-25 s 20-26 s 23-29 s		
	Spray equipment	Compliant guns	Fluid tip	Distance	Pressure
		Gravity feed Suction feed Pressure feed	1.3-1.6 mm 1.5-1.8 mm 1.0-1.2 mm	10-15 cm 10-15 cm 10-15 cm	According to supplier's specifications
		Conventional guns			
		Gravity feed Suction feed Pressure feed	1.4-1.6 mm 1.6-1.8 mm 1.0-1.2 mm	15-20 cm 15-20 cm 15-20 cm	3-4 bar 3-4 bar 3-4 bar
	Number of coats	1-1.5			
	Flash time	0-5 min between coats when applying 1.5 coats. 10 min before bake.			
	DFT	30-45 µm			
	Drying		ET645/ET650		
		Dust-free Dry to handle Tape-free	20°C 25 min 45 min 1 hr	15 min x 60°C imm. imm. after cool down	
	IR drying*	Flash time Distance Half power Full power	10 min 80 cm 5 min 10-15 min		
* Guideline for short/medium wave IR equipment.					
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REMARKS FOR ACCELERATED SYSTEM

- Do not apply on large surfaces (e.g. entire buses, trailers, etc.).
- For optimum result, recoat within a working day.
- Scuff sanding is required:
 - when a topcoat layer, accelerated with ET740, has been force dried and kept overnight;
 - when a topcoat layer, accelerated with ET740, has been force dried more than once.

SURFACE PREPARATION

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1. Clean surface with water and soap. Rinse and dry.
2. Degrease with a correct preparatory cleaner. Wipe dry with a clean cloth.
3. Repair according to damage.
4. Sand surface:
 - a. mechanical P360 - P500;
 - b. wet P800 - P1000.
5. Remove all traces of sanding dust by blowing with oil-free compressed air.
6. Degrease with a correct final cleaner/degreaser. Wipe dry with a clean cloth.
7. Tack rag.

TOPCOAT APPLICATION

Apply 1 full coat or apply a light coat, immediately followed by a full coat with 0-5 min flash between coats. For poor hidiers, apply 2 full coats, with minimum 15 min flash between coats.

TOPCOAT APPLICATION ACCELERATED WITH ET740

Apply 1 full coat or apply a light coat, immediately followed by a full coat with 0-5 min flash between coats.

CHEMICAL RESISTANCE

When fully cured, Imron® Elite HDC is resistant to short exposures of the chemicals as listed:

sodium hydroxide	20 %	battery acid
sulphuric acid	25 %	toluene
hydrochloric acid	20 %	xylene
phosphoric acid	20 %	glycol
ammonia	10 %	brake fluid, petrol

EQUIPMENT CLEANING

Use a correct solventborne gunwash.

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RECOATABILITY

At any time after tape-free time. After 24 hr, scuff sanding is required.

REMARKS

- PowerTints® have to be thoroughly mixed before weigh-out and the Imron® Elite HDC colour has to be mixed immediately after weigh-out.
- Close can of activator tightly immediately after use, as this product will react with humid air and water and lose its hardening effect.
- For structured and/or flat colours, see specific TDS.
- For flexible systems, see specific TDS.
- For mixing rod information, see specific TDS.
- Material has to be at room temperature (18-25°C) before use.

PRODUCT DATA

Theoretical coverage: 7-9 m²/l at recommended DFT - ready-to-spray
Directive 2004/42/EC: The EU limit value for this product (product category: IIB(d)) in ready to use form is maximum 420 g/l of VOC. The VOC content of this product in ready to use form is maximum 420 g/l.

SAFETY

Consult Safety Data Sheet prior to use. Observe the precautionary notices displayed on the container.

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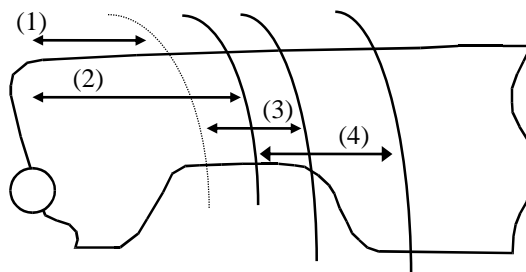
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SPOT REPAIR

1. Clean surface with water and soap. Rinse and dry.
2. Degrease with a correct preparatory cleaner. Wipe dry with a clean cloth.
3. Repair with recommended undercoats.
4. Sand treated spots as recommended.
5. Prepare complete fade-out area with a non silicone containing rubbing compound or sand wet with P1200.
6. Rinse with water and dry.
7. Degrease with a correct final cleaner/degreaser. Wipe dry with a clean cloth.
8. Tack rag.
9. The following spot repair method can be used:
- AK350 Fade-out Thinner method.

AK350 FADE-OUT THINNER METHOD

- (1) Apply 1st coat Imron® Elite HDC.
Flash: 0-5 min.
- (2) Extend 2nd coat Imron® Elite HDC
beyond the previous one.
- (3) Smoothen out the fade-out area
with AK350 within 5 min maximum.
- (4) Optionally extend the fade-out area
with AK350 within 5 min maximum.



If necessary, balance out the gloss level by polishing with a non silicone containing polishing compound or a non silicone containing final glaze, after complete hardening of the repair.

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All other products referred to in the paint system build-up are from Cromax®. System properties will not be valid when the related material is used in combination with any other materials or additives not belonging to Cromax®, unless explicitly indicated otherwise.

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