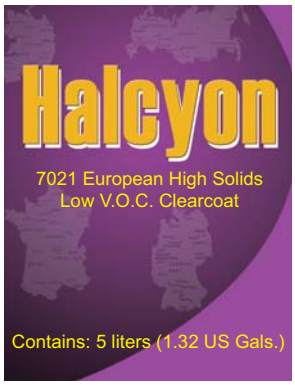
TECHNICAL DATA SHEET



7021 European High Solids Low V.O.C. Clearcoat

This 2.1 Low VOC Clearcoat is formulated to produce a finish that will compare with any clear coat available on the market today. It provides exceptional flow, leveling characteristics, excellent gloss, and is easy to buff.

- **2 Coat Application**
- **Outstanding Gloss and DOI**
- **Easy to Buff**
- **Exceptional Flow & Leveling**

FEATURES:
- Two coat application
- Outstanding gloss and DOI
- Easy buffing within 8 to 12 hours
- Excellent flow and leveling

RECOMMENDED SUBSTRATES:
- All basecoat systems
- Polyurethane enamel (after 8 hour dry)
- Acrylic urethane enamel (after 8 hour dry)
- Gel coat (must be properly prepared)

MIXING INSTRUCTIONS:
2 parts 7021 Clear to 1 part Activator. 1 part Reducer optional (Note: Addition of Reducer will increase VOC).

ACTIVATOR OPTIONS:

7060V Low Temp	7075V Medium Temp
7085V High Temp	7095V Very High Temp

APPLICATION INSTRUCTIONS:
1. Apply basecoat color per manufacturer's recommended procedures. Note: Allow polyurethane and acrylic enamel basecoat to dry at least 8 hours before applying clear.

2. Apply two wet coats of clear using 50-60 PSI at gun conventional spray or 6-10 PSI at gun HVLP.

3. Mix 7021 Clear with appropriate activator for conditions as per instructions.
4. Allow 10-15 minutes flash between coats. Optional: On small jobs (i.e. fenders & doors) one tack coat can be applied, followed by one full wet coat with no flash between coats. Tack coat must be applied evenly.

5. Dry times:
Dust Free: 10-15 minutes depending on temperature and activator selection
Tack Free: 20-40 minutes depending on temperature and activator selection
Buff Time: Minimum 8-12 hours air dry
Force Dry: 10 minutes flash bake 30-40 minutes at 140° F
Delivery: 8-12 hours air dry

6. Pot Life: 35-45 minutes.

BUFFABILITY:
7021 Clearcoat can be wet sanded and buffed between 8-12 hours. 7021 should be buffed within 36 hours for best results. Film thickness, flash times, and temperature will effect buffing times.

CLEANING:
Use good quality lacquer thinner to thoroughly clean all equipment. Do not leave catalyzed clear in gun longer than 45 minutes.

TECHNICAL DATA:

Color:	Water Clear
Flash Point :	< 0° F TCC
Pot Life:	35-45 minutes @ 75° F
Recommended Film Build:	2-2.5 mil DFT
Coverage 1 mil.:	680 sq. ft.
Gloss:	92 Plus
Mix Ratio:	2:1
Weight Solids:	48% RTS
Sprayability Viscosity:	18-20 sec. #2 Zahn
V.O.C.:	RTS 2.1 lbs./gal.

CARACTÉRISTIQUES:
- 2 couches en application
- Lustre exceptionnel et DOI
- Polissage facile au 8 à 12 heures
- Excellent écoulement, nivellement

RECOMMANDATIONS ESSENTIELLES:
- Toutes les méthodes de premières couches
- Émail polyuréthane (après séchage de 8 heures)
- Émail d'acrylique uréthane (après séchage de 8 heures)
- Couche de coagulation (doit être préparée correctement)

INSTRUCTIONS POUR MÉLANGE:
2 parts de 7021 l'enduit à une (1) part de l'activateur. Une (1) part de diluant optionnel (Note: Diluant additionnel augmentera le COV).
OPTIONS L'ACTIVATEUR:

7060V Basse température	7075V Moyenne température
7085V Haute température	7095V Très haute température

INSTRUCTIONS À L'APPLICATION:
1. Appliquer la première couche de couleur en suivant les instructions du manufacturier. À noter: Veuillez laisser la première couche d'émail polyuréthane et acrylique à secher au moins 8 heure avant d'appliquer l'enduit lustré.
2. Appliquer deux couches d'enduit en utilisant 50-60 PSI par pistolet conventionnel et le 6-10 PSI par pistolet HVLP.
3. Mélanger le l'enduit (clear) 7021 avec l'activateur approprié tel qu'indiqué.
4. Allouer entre 10 à 15 minutes entre les couches éclaires. Optionnel: Sur un petit travail (i.e. pare-chocs et portes) une couche d'adhérence pourrait être nécessaire, suivi d'une couche chargée complète sans temps d'attente entre les deux couches.
La couche d'adherence doit être appliquée uniformément.
5. Temps de séchage:
Sec à la poussière: 10 à 15 minutes dépendamment de la température ou de l'activateur utilisé Non collant: 20 à 40 minutes dépendant de la température ou de l'activateur utilisé Temps de polissage: Minimum de 8 à 12 heures à air sec.
Air forcé: 10 minutes de cuisson rapide 30-40 minutes à 140º F Exécution: 8 à 12 heures
6. Vie en pot: 35 à 45 minutes.

MÉTHODES DE POLISSAGE:
7021 Enduit lustré peut être poncé à l'eau et polis après 8 à 12 heures. 7021 devrait être
polis dans un lapse de remps de 36 heures pour de meilleurs résultats. Épaisseur de
couche, temps éclairs, et la température influera le temps de polissage.

NETTOYAGE:
Utilisé un laque diluant pour nettoyer tout l'équipement en profondeur. NE laisser PAS
l'apprêt catalysé dans le pistolet plus de 45 minutes.

DONNÉES TECHNIQUES:

Couleur:	Blanc Transparent
Point éclair:	<0° F TCC
Vie en pot:	35 à 45 minutes @ 75°F
Construction recommandée de film:	2 – 2.5 mil DFT
Champ d'application:	680 pieds carrés
Lustre:	92 Plus
Ratio de malaxage:	2:1Échantillons solides: 48% SRT
Viscosité pulvérisée:	18-20 sec. #2 Zahn
C.O.V.:	SRT 2.1 lbs./gal.

41158 Koppernick Rd. • Canton, MI 48187 • 734 335-6665

Material Safety Data Sheet

PRODUCT IDENTITY: HC-7021 European High Solids Clearcoat

Section I – Manufacturer Information

Manufacturer Name: Innovative Solutions Technologies, Inc.
Address: 41158 Koppernick Rd.
Canton, MI 48187
Emergency Telephone: 800 255-3924
Information Telephone: 734 335-6665

NFPA Ratings

Health	2
Flammability	3
Reactivity	0
Personal Protection	G

Section II-Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name)

	CAS#	OSHA PEL	ACGIH TLV	Wt %
METHYL AMYL KETONE	110-43-0	100 ppm	50 ppm	5/10
*XYLENE	1330-20-7	100 ppm	100 ppm	1/5
OXSOL 100	98-56-6	100 ppm	100 ppm	40/50
ACETONE	67-64-1	750 ppm	750 ppm	10/15

* SARA 313 listed chemical
DOT SHIPPING: FLAMMABLE LIQUID; PAINT RELATED MATERIAL UN 1263

Section III-Physical/Chemical Characteristics

Boiling Point: 132°F Specific Gravity (H20 = 1): 1.14
Vapor Pressure (mmHg @ 70°F): 85 mmHg Vapor Density (Air = 1): Heavier than Air
Evaporation Rate:(butyl acetate = 1) >1
Appearance and Odor: Water white liquid, solvent odor
Material V.O.C.: 0.71 #/gal. 85.9 gm/l Coatings V.O.C. 1.46 #/gal. 175.8gm/l

Section IV-Fire and Explosion Hazard Data

Flash Point (Method Used): -20°F (TCC) Flammable Limits: LEL 1.0 UEL 10.5
Extinguishing Media
Class B extinguisher, Carbon Dioxide, Dry Chemical, Foam Special Fire Fighting Procedures. Water spray can be used to cool containers exposed to fire. Clear area of unprotected personnel. Fire fighters are to wear self-contained breathing apparatus and proper protection gear. Keep containers closed tightly. Isolate from heat, sparks, and open flames.
Unusual Fire and Explosion Hazards
Closed containers may explode when exposed to extreme heat.

Section V- Reactivity Data

Stability – Unstable: Conditions to Avoid: Sources of ignition
Stable: Yes
Incompatibility (Materials to Avoid): Strong Oxidizers
Hazardous Decomposition products: Carbon monoxide, Carbon dioxide,and Oxides of nitrogen.
Hazardous Polymerization: Will not occur

Section VI- Health Hazard Data

Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes
Health Hazards (Acute and Chronic)
May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Effects are reversible. Long-term exposure (years) vapor may cause lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system. Signs and Symptoms of Exposure: Inhalation - difficulty in breathing; Skin – redness; Ingestion - vomiting

Medical Conditions Generally Aggravated by Exposure:
Heart Disease; respiratory disorders.
Emergency and First Aid Procedures:
If overcome by vapors give oxygen. Do not induce vomiting. Wash eyes with large quantities of water. Wash skin with soap and water.

Carcinogenicity: NTP? No IARC Monographs? No OSHA? No

Section VII - Precautions for Safe handling and Use

Steps to be taken in Case Material is Released or Spilled: Eliminate all ignition sources. Scrape up with NONSPARKING tools. FLASHBACK POSSIBLE.
Waste Disposal Method: Dispose as hazardous waste in accordance with EPA RCRA.
Precautions to be taken in Handling and Storing: Keep away from heat, sparks or open flame. Store at temperatures below 120oF
Other Precautions:
Excessive skin contact may defat skin causing dermatitis.
Respiratory Protection (Specify Type): Self contained breathing apparatus if above TLV limit.
Ventilation Local Exhaust: YES Mechanical (General)
Special: NONE
Protective Gloves: Neoprene, Viton
Eye Protection: Wear eye protection.
Other Protective Clothing or Equipment: N/A
Work/Hygienic Practices: Do not smoke while using. Wash your hands after every use. Avoid unnecessary exposure.

* SARA
All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Super Fund Amendments and Reauthorization Act (SARA) if 1906 and 40 CFR Part 372.
You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.
Material Safety Data Sheet