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RainBow
Specialty + Health Products Inc.

ACU-flow™
Hydrophilic Impression Material
With Advanced Formula Technology

MSDS – Material Safety Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION & INFORMATION
MATERIAL NAME: ACU-flow™ Hydrophilic Impression Material
COMPANY: Rainbow Specialty & Health Products Inc.
3400 – 14th Ave. Unit 22
Markham, Ontario Canada L3R 0H7
TELEPHONE: For Emergencies or Product Information Call: 1-800-268-3384 or 905-947-0124
FOR PROFESSIONAL DENTAL USE ONLY

SECTION 2 - INGREDIENTS AND HAZARDS
CHEMICAL COMPOSITION: A mixture of polymethyl siloxane, polydimethyl polymethyl hydrogen siloxane, silica and pariffine
CHEMICAL FAMILY: Silicone
HAZARD DATE: No known Hazards

SECTION 3 - PHYSICAL DATA
BOILING POINT: N.E.
VAPOR PRESSURE: N.E.
VAPOR DENSITY: N.E.
SOLUBILITY IN WATER: Insoluble
PERCENT VOLATILE: 2%
EVAPORATION RATE: N/A

SECTION 4 - FIRE AND EXPLOSION DATA
FLASH POINT: 485°F(252°C) closed cup – DIN 51755
EXTINGUISHING MEDIA: Sand, Foam, Co_2, Dry Chemical

Firefighters should wear full protective clothing including a self-contained breathing apparatus. During a fire, irritating and/or toxic gases and aerosols may be present from the decomposition/combustion products.

SECTION 5 - REACTIVITY DATA
STABILITY: Stable
CONDITIONS TO AVOID: N.E.
INCOMPATIBILITY: N.E.
HAZARDOUS DECOMPOSITION: N.E.
HAZARDOUS POLYMERIZATION: None

SECTION 6 - HEALTH HAZARD INFORMATION
TLV (SEE SCT. 2)
THRESHOLD LIMIT VALUE: N/A
EFFECTS OF OVER EXPOSURE: N.E.
EYE CONTACT: Flush eyes with large amounts of water, consult a physician.
SKIN CONTACT: Wash thoroughly with soap and water.
INGESTION: Consult a physician immediately.

SECTION 7 - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE OF SPILL: Cover with an absorbent material such as sand or sawdust, scoop up and place in appropriately marked container.
WASTE DISPOSAL METHOD: Waste material may be incinerated under conditions according to Federal and Provincial and Local environment control regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION: None required
PROTECTIVE GLOVES: Rubber, PVS, Nitrile
EYE PROTECTION: Protective goggles
OTHER: Rubber apron

NE: NONE ENCOUNTERED
N/A: NOT APPLICABLE

PRODUCT INFORMATION SHEET

Hydrophilic ACU-flow™ V.P.S. from Rainbow Specialty & Health Products Inc. is an Advanced Formula Technology vinyl poly siloxane impression material. ACU-flow's™ Advanced Formula Technology chemistry provides true hydrophilic properties; higher tear strength and dimensional stability. In addition, each viscosity is matched to all others resulting in a superior impression, regardless of the technique utilized. ACU-flow™ also exhibits the most efficient working and set times to minimize chair time and the potential for inaccuracies. ACU-flow's™ dispensing is even advanced in that ACU-flow™ flows more easily through a conventional mixing tip as compared to previous generation impression materials, regardless of the viscosity. The Advanced Technology of ACU-flow™ will consistently provide you with the most efficient and accurate impression.

INSTRUCTIONS FOR AUTO-MIX CARTRIDGES USING MANUAL GUN

1. Insert the flange at the rear of the cartridge into the space provided at the front of the impression gun – depress the gun lever to lock the cartridge in place
2. Twist off and dispose of the cartridge shipping cap.
3. Squeeze the gun handle to engage the plunger into the cartridge, making sure the cartridge and plunger are aligned.
4. Before attaching the auto-mix tip to the cartridge, extrude 1/4 inch of impression material by gently squeezing the handle. Check to ensure both base and catalyst are expressing freely. Wipe the end of the cartridge clean.
5. Attach an auto-mix tip to the cartridge and twist 1/4 turn to lock it into position.
6. Gently squeeze the impression gun handle to mix and dispense the impression material. Release handle to stop the flow.
7. Leave the used auto-mix tip on the cartridge as a self-sealer after each use. For subsequent dispensing remove and discard the sealer tip. Proceed with steps 4 through 7.

INSTRUCTION FOR MIXING PUTTY

1. Dispense an equal amount of base and catalyst using the scoops provided.
2. Mix the base and the catalyst with your fingertips until homogenous mixture is achieved. (30-45 seconds) Small variations in the amounts of base and catalyst will have no bearing on the work and set times.
3. Place the mixed putty into an adhesion coated impression material tray.

VISCOSITIES AND SET TIMES FOR ACU-flow™

MATERIAL	TYPE	COLOUR	WORKING TIME	MINIMAL INTRA ORAL SET TIME	MAXIMUM* TOTAL CURE TIME
LIGHT BODY ** PLUS (HIGH FLOW)	OPTIMIZED REGULAR SET	PURPLE	1:30 min	2:15 min	3:45 min
HEAVY BODY	OPTIMIZED REGULAR SET	GREEN	1:30 min	2:15 min	3:45 min
RIGID TRAY	OPTIMIZED FAST SET	LIGHT BLUE	1:10 min	1:45 min	2:55 min
BITE REGISTRATION	OPTIMIZED FAST SET	PINK	0:15 min	0:45 min	1:00 min
MEDIUM BODY	REGULAR SET	ORANGE	1:45 min	2:30 min	4:15 min
PUTTY ***SEE NOTE	REGULAR SET	GREEN	1:45 min***	3:15 min	5:00 min

*** PUTTY WORK TIME IS IN ADDITION TO A 30-45 SECOND MIXING TIME. ALL THE TIMES REFLECT IDEAL CONDITIONS. CHANGES IN HUMIDITY AND TEMPERATURE MAY EXTEND OR REDUCE THESE TIMES.
* ALL TIMES REFLECT IDEAL TEMPERATURE AND HUMIDITY CONDITIONS. CHANGES AND FLUCTUATIONS IN THESE CONDITIONS COULD EXTEND OR REDUCE WORKING AND SET TIMES.
** OPTIMIZED ACU-flow is a faster curing material as compared to standard regular set materials.

VINYL POLY SILOXANE IMPRESSION MATERIAL CONSIDERATIONS

1. Allow impression material to reach room temperature prior to use.
2. Handling retraction cord with latex gloves may subsequently prevent the setting of the impression material if direct contact occurs.
3. Very high viscosity tray materials are not suitable for detailed impressions when used alone.
4. For model fabrication, ACU-flow™ is ideally poured two hours after the impression has been taken. However, ACU-flow™ can be poured sooner if the impression is placed in hot water for ten minutes to allow for degassing to occur. Wait 2-3 minutes before placing in Hot Water.

*** When handling ACU-flow Putty certain gloves will inhibit the set. It is suggested the operator mix a small amount of putty to confirm proper setting prior to impression procedure, to test for compatibility. Keep jars closed when not in use. Very high viscosity (putty) materials are not suitable for detailed impressions when used alone. For model fabrication, ACU-flow Putty is ideally poured two hours after the impression has been taken. However, ACU-flow Putty can be poured sooner if the impression is placed in hot water for ten minutes to allow for degassing to occur. Wait 2-3 minutes before placing in Hot Water.

STORAGE

Vinyl Poly Siloxane Impression material should be stored at room temperature (65°-75°F/18°-24°C) and at a minimum relative humidity.

WARRANTY AND DISCLAIMER

Rainbow Specialty & Health Products Inc will replace free of charge any ACU-flow™ V.P.S. IMPRESSION MATERIAL deemed to be defective when stored at room temperature (65°-75°F/ 18°-24°C) and at MINIMUM relative humidity. This shall be the sole liability accepted by Rainbow Specialty & Health Products Inc arising out of the use of or the inability to use these products. PRIOR to using it is incumbent on the user to determine the suitability of the product(s) for its intended use and accordingly the user assumes all risk and liability in connection therewith.

The information and recommendations are believed to be accurate. Rainbow Specialty & Health Products Inc does not make any warranty as to the accuracy or suitability of the information or recommendations contained herein and therefore assumes no liability to the user.

DISTRIBUTED BY:

HuberMED is an authorized distributor of ACU-flow materials for Rainbow Specialty + Health Products Inc. ACU-flow in North America.
Tel./Fax: 1 (888) 789.9928 • info@hubermed.com • www.hubermed.com (ACU-flow Bite Registration is not available in the United States by HuberMED).