XIAMETER® RSN-0431 Resin

80 percent solids, hydroxyl-functional silicone resin for use in liquid coatings; chemically similar to XIAMETER® RSN-0840 Resin

FEATURES

- High solids/low VOC
- Good heat stability
- Good weatherability

COMPOSITION

- 80 percent solids resin in toluene
- Hydroxyl functional

APPLICATIONS

XIAMETER® RSN-0431 Resin can be evaluated for use:

- By itself or blended with a variety of organic resins to improve heat resistance and exterior weatherability
- As an additive to improve initial gloss and flow-out of paint

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER® sales representative prior to writing specifications on this product.

CTM[1]	Test	Unit	Value
As Supplied			
0176	Appearance		Clear liquid
0001A	Specific Gravity		1.14
0004	Viscosity at 25ºC (77ºF)	cp	800
0021A	Flash Point, closed cup	ºC (ºF)	7 (45)
0208	Nonvolatile Content[2]	percent	80
Method 24	VOC	g/L (lb/gal)	228 (1.9)
	Solubility		Aromatics, hydrocarbons, ketones, esters, chlorinated solvents

[1]CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTM procedures are available upon request.
[2]1.5-g sample for 3 hours at 135ºC (275ºF).

HOW TO USE

Pigmented and clear heat-cured coatings based on XIAMETER RSN-0431 Resin can be formulated in conventional equipment currently used for solvent based coatings. The resin can be used by itself or blended with silicone and/or organic resins to obtain a wide variety of coatings with polymer characteristics to fit specific applications and properties. A suggested heat cure is 30 minutes at 232ºC (450ºF). Zinc octate (0.1 percent zinc metal on resin solids) may reduce cure conditions. See Table I for XIAMETER RSN-0431 Resin compatibility.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA

Table 1: XIAMETER RSN-0431 Resin Compatability[1]

Resin Type	Brand	10%	50%
Acrylic (Thermoplastic)	*Acryloid*®2 A-10	C	SI
	Acryloid® B-44	SI	I
	Acryloid® B-48S	C	C
	Acryloid® B-66	C	C
	Acryloid® B-72	C	C
	Acryloid® B-82	C	SI
Acrylic (Thermosetting)	*Acryloid*® AT-51	C	C
	Acryloid® AT-56	C	C
	Acryloid® AT-63	C	C
	Acryloid® AT-400	C	C
Epoxy	*Epon*®3 828	C	C
	Epon® 1001	I	I
Silicone	XIAMETER® RSN-0804 RESIN	C	C
	XIAMETER® RSN-0805 RESIN	C	C
	XIAMETER® RSN-0806 RESIN	C	C
	XIAMETER® RSN-0808 RESIN	C	C
	XIAMETER® RSN-6018 RESIN	C	C
	XIAMETER® RSN-0233 RESIN	C	C

[1]As determined by dry film on glass slides:
C – Compatible
SI – Slightly incompatible
I – Incompatible
[2]Acryloid is a registered trademark of Rohm & Haas Company.
[3]Epon is a registered trademark of Shell Chemical Company.

SHEET IS AVAILABLE ON THE XIAMETER WEB SITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored at or below 25°C (77°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

Partially filled containers of XIAMETER RSN-0431 Resin should be sealed tightly after use to prevent contaminants and water vapor from entering containers

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

SHIPPING LIMITATIONS

DOT Classification:
Flammable liquid.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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