

TECHNICAL DATA SHEET

TULSICRYL MARK⁺ 105**PRODUCT SPECIFICATIONS:**

PROPERTY	VALUE/CHARACTERISTIC
Chemical Name	SILICONE MODIFIED ACRYLIC EMULSION
Appearance	Bluish translucent pourable liquid
Emulsifying System	Synthetic Anionic
Solvent	Water
Solid content, weight %	50 ± 1%
pH	7.0 - 10.0 at 25°C
Brookfield viscosity	RVT Max 5 Poise, SP#3, 20 RPM @ 25°C
Free Monomer	<0.3 Max
MFFT (°C)	16 ± 1°C
Compatibility	Compatible with pigments and fillers

FILM PROPERTIES:

Excellent scrub and UV resistance, ensuring durability in various climatic environments. It meets the ASTM D2486 standard, passing 1000 cycles*, and offers high gloss with superior resistance to dirt pick-up. Additionally, it excels in water and alkali resistance, making it a reliable choice for lasting performance. *Performance depends on paint formulation and application.

APPLICATIONS:

This product is specially engineered for applications that require good mechanical endurance and strength against abrasion and weathering. In addition, it also provides UV stability and protects films in exterior applications to let the paints/coating withstand different exterior climatic environments. It is recommended for road marking & flooring applications.

PAINT PROPERTIES:

Offers excellent freeze-thaw stability, quick drying, and good stability against soluble salts and pH variations. It provides a tough, durable film with high sheen and gloss, retaining color well and resisting chalking. Easy to apply by brushing, spraying, or roller coating, it ensures superior water and UV resistance, exceptional wet scrub and dirt resistance, and excellent binding capacity for textured aggregates.

PACKAGING:

The product is available in 240 kg/250 kg HDPE barrels.

HANDLING & STORAGE:

- Store the material in a tightly-sealed original container in a well-ventilated area at ambient conditions.
- Shelf life of the product: 1 year from the date of manufacturing.

Disclaimer: Note: The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other company's raw materials are also being used. The recommendations do not absolve the user from the obligation of investigation of the possibility of infringement of third parties rights and, if necessary, clarifying the positions.

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PERFORMANCE TESTING:

ASTM D2486 - TEST REPORT

The following is the scrub resistance report of the road/floor marking paint which is manufactured using **TULSICRYL MARK⁺ EMULSION**. The product successfully passes 1000 cycles in this test with no loss in mass. The image on the left shows the panel before the test, whereas the image on the right shows the panel after testing. Thus, **TULSICRYL MARK⁺** provides an effective solution* to develop road & floor marking paints or coatings that require very high scrub/abrasion resistance.



*** The results are subject to the formulation of coating.**

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