TECHNICAL DATA SHEET

TULSICRYL DAMP 101

TULSICRYL DAMP 101 is a **functional emulsion** that is specially engineered for the development of **exterior alkali and efflorescence control water-borne coatings.** It is **based on modified acrylic acid chemistry** along with the incorporation of state-of-art additives that impart functionality to the emulsion, significantly enhancing its performance. The product is environmentally friendly and free of plasticizers.

ADVANTAGES:

- Best recommended for the development of coatings for efflorescence control.
- It can be incorporated into a range of interior and exterior paints.
- Uniform particle-size distribution of particles leads to improved stability and reduces the requirement for dispersing agents.

APPLICATIONS:

It can be used as a primary binder in the development of different coatings, specially intended for alkali resistance and efflorescence control in applications such as interior/exterior paints, building, and tile adhesives, filler compounds, and other cement-based products.

PROPERTIES:

Property	Value/Characteristic	Unit
Physical Appearance	Milky-White Liquid	-
Viscosity (at 25 ^{0}C)	120 ± 200	cPs
Solids Content	45.00 ± 3.00	% (wt./wt.)
pH (at 25 ^{0}C)	7.00 ± 10.00	-
MFFT	ca. 17	^{0}C

DOSAGE:

The dosage of this product varies from application to application. It is recommended to add coalescing aid just after the binder during the paint formulation with its recommended dosage of 5% of the binder solids.

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.

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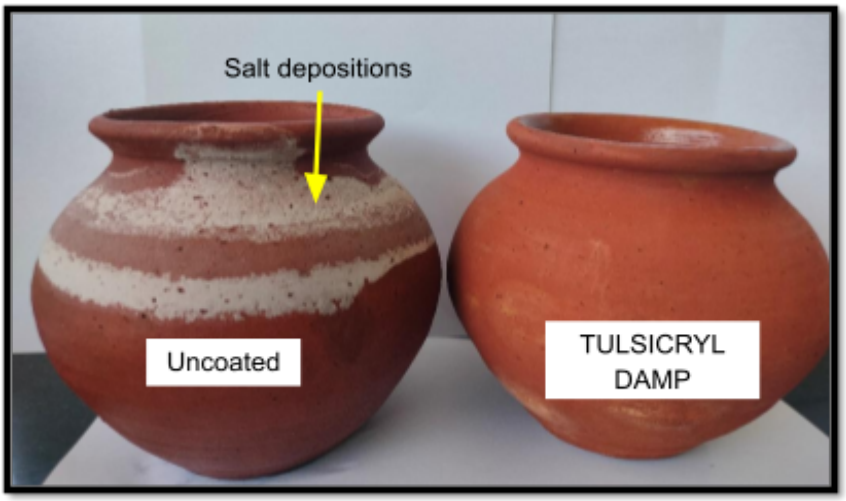
PERFORMANCE TESTING:

The salt/efflorescence resistance of **TULSICRYL DAMP 101** was performed by filling two clay pots (porous structures) with sea water resembling solution (3.5 wt% NaCl solution at pH=8). The left pot in the figure below is uncoated, whereas the right pot is coated with **TULSICRYL DAMP 101**. The synergistic silicone-acrylic chemistry not only covers the pores, but also prevents the passage of salts across the film, demonstrating superior efflorescence resistance.



Furthermore, the top view confirms that the pot coated with **TULSICRYL DAMP 101** successfully retains the salt solution inside it, whereas water passes through the capillaries/channels and evaporates, leaving the salt deposits on the uncoated pot. Thus, coatings based on **TULSICRYL DAMP 101** are best suited in areas such as basement walls, driveways, or exterior coatings where water or moisture is always present.

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