



# **SEAL THERMAL-PLAST NT**

THERMAL INSULATION INTERIOR ACRYLIC PLASTER/PUTTY



**Interior Fine  
Thermal Plaster**

**The High Tech Eco-Friendly Thermal Insulation Acrylic Plaster for Interior Surfaces**  
Improves efficiency and reduces energy costs

## **Technical Datasheet**



**Energy Saving**



**Low Odor**



**Low VOC**



**Antibacterial**



**Eco-Friendly**

[www.seal-coatings.com](http://www.seal-coatings.com)





## Technical Datasheet

### Product description

Seal Thermal-Plast NT is a fine lightweight high performance one-component ready-mix acrylic plaster / putty having Energy saving THERMAL INSULATION properties and is easily applied to most interior wall surfaces. Owing to having intensive amount of ceramic micro-spheres of vacuum beads, Seal Thermal-Plast NT works as an insulation barrier within the building whereby in cold winter it prevents heat loss from inner to outer while entrapping the cool temperature of the air-conditioned rooms in summer.

### Typical applied surfaces

- Gypsum boards
- Fiber cement boards
- Cement plaster
- Concrete

### Theoretical spread rate

1 m<sup>2</sup> / Liter @ 1000 Microns WFT

### Solid content

79% by volume ± 5%

59% by weight ± 5%

### Approximate drying time

To re-coat: 4 hours, Fully dry 12 hours

### Specific gravity

1.05 / L ± 5% ;

### Equipment

Trowel, spatula, putty knife, or spray application

### Thinning

Approx. 0%-5% with sweet water.

### Packaging size

Available in 4 litres and 18 Litres (Pail)

### Colours

Off white slightly grey

### Benefits

- Reduces internal temperatures
- Saves Energy
- Used as a decorative coating
- Class A - Fire Retardant
- Ready to use
- Non-toxic, water-based, low VOC
- Lighter than traditional plasters or putties
- Provides breathable walls with its porous structure
- Environment friendly
- Easy application.
- Superior workability and application
- Excellent bonding to most substrates
- Lightweight

### Recommended system

<b>Primer on concrete:</b> Seal Acroprime	<b>1 Coat</b>
<b>Plaster/Putty on wall:</b> Thermal-Plast NT	<b>1 Coat</b>
Seal Thermal-Shield NT	<b>2 Coats</b>

### Characteristics and physical properties

Type	Results
Thermal Conductivity	0.06 W/mK
VOC Content	< 50 g/l
Fire Retardant	Class A
Adhesion Strength	1.5 N/mm <sup>2</sup> Concrete
Finish type	Matt





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### Conditions during application

The temperature of the substrate upon application should not be less than 8°C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

### Recommended film thickness / coat

Dry film thickness : 1000 microns (µm)\*

Wet film thickness : 1200 microns (µm)\*

\* Film thickness can vary on different types of interior applications.

### Surface preparation

The substrate must be sound, clean, dry and free from dust, oil, grease etc. A light sanding with suitable abrasive material is recommended before application. Any resulting dust/loose particles must be removed.

### Drying times

The given below data must be considered as guidelines only. The actual drying time and time before recoating may be shorter or longer, depending on the ambient temperature, wind factor, film thickness, ventilation, and humidity.

Surface Temp.	10 °C	25 °C	40 °C
Surface (touch) dry	3h	1h	0.4h
Hard dry	10h	6h	3h
Dry for 2nd coat	4h	2h	1h

### Application preparation

- Apply 1 – 2 coats of Seal Acroprime.
- Apply Thermal-Plast NT around 1200 microns to smoothen the surface.
- Sand surface for smoother finish.
- 2 coats of Thermal-Shield NT top coat.

### Health and safety (MSDS)

Safety Data Sheets (SDS) are available from Seal Coatings to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. For further questions consult your Seal Coatings agent.

### Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Disclaimer

The information in this document is given to the best of Seal Coatings knowledge, based on laboratory testing and practical experience. Seal Coatings are often used under conditions beyond Seal Coatings control. Seal Coatings or authorized distributors or agents across the globe cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Seal Coatings reserves the right to change the given data without further notice.

