

**EFFICIENT  
MATTING.  
ENHANCED  
LONGEVITY.  
UNRIVALED  
DURABILITY.**

NduroMatt™ multi-functional additives  
for Paints and Coatings



**Honeywell**

# IMPROVED COATING PERFORMANCE FOR LONGER SERVICE LIFE

Matte coatings are more prevalent than ever before, yet the requirements for durability and longevity remain the same. Conventional matting agents make coatings susceptible to surface defects such as burnish, mar, and scratch, negatively impacting the durability of matte paints and coatings. Honeywell's new NduroMatt™ provides a 2-3 fold improvement over conventional matting agents.



## NDUROMATT™ MULTI-FUNCTIONAL ADDITIVES FOR COATINGS

Honeywell's NduroMatt product line consists of four product groups that offer a wide range of performance attributes for architectural, wood, industrial, and functional coatings. NduroMatt™ products can completely replace conventional matting agents or can be used to supplement matte coatings to enhance surface properties.

PRODUCT	DESCRIPTION	PERFORMANCE ATTRIBUTES*	BURNISH RESISTANCE*	SCRUB RESISTANCE*	RUB/MAR RESISTANCE*	STORAGE STABILITY*
NduroMatt™ 100 series	For use in water or solvent-based, semi-gloss to flat paints and coatings, providing superior surface properties when compared to conventional matting agents.	<b>Matting Efficiency</b>	+	+	+	+
NduroMatt™ 200 series	For use in water or solvent based, semi-gloss to flat paints and coatings, that require an additional boost in surface properties over NduroMatt™ 100.	<b>50% faster incorporation**</b> <b>Limited or no foam and dust generation**</b>	++	++	++	+
NduroMatt™ 300 series	For use in water based pigmented semi-gloss to flat paints and coatings, requiring a polar matting agent for ease of dispersion, and superior surface properties when compared to conventional matting agents.	<b>Limited or no impact on viscosity**</b>	++	++	++	++

\*\* Versus synthetic silica based matting agents.

+ Better than conventional matting agents.

++ Significantly better than conventional matting agents

\* Burnish resistance test – MPI #139 (March 2018) modified with additional 500g weight and 250 cycles.

\* Scrub resistance – Per MPI #60, March 2018 (referencing ASTM D2486-17).

\* Rub/Mar resistance – Per modified MPI #139 (March 2018) Burnish resistance test, visual inspection of damaged surface.

\* Storage stability – Stored at room temperature for 42 days, visual inspection of coating.

## NDUROMATT™ PRODUCT GROUPS

Honeywell's NduroMatt products come in 6 micron to 18 micron particle sizes that are suitable to be used with coatings of various dry thickness. The varying sizes also allow customers to mix & match these products to achieve the most optimal visual as well as performance characteristics.

PRODUCT	18 MICRON	12 MICRON	6 MICRON
NduroMatt™ 100 series	100	101	102
NduroMatt™ 200 series	200	201	202
NduroMatt™ 300 series	300	301	302

## EFFICIENT MATTING, ENDURING PROTECTION

Recommendation for 100% replacement of conventional matting agents:

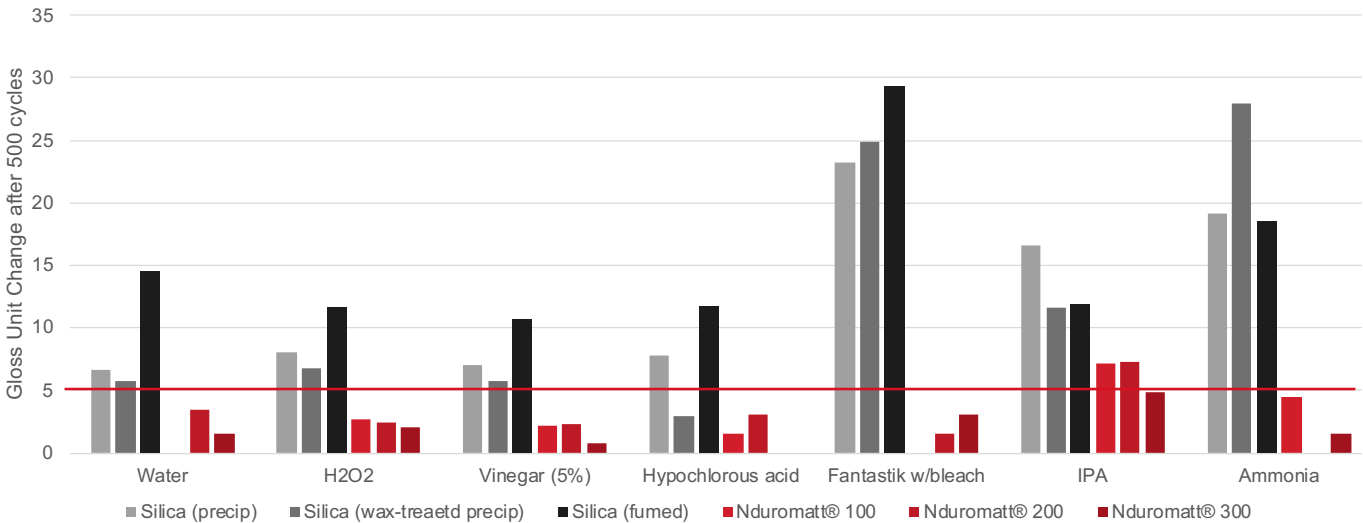
VALUE PROPOSITION	WATER-BASED ACRYLIC/VINYL	SOLVENT-BASED 2K POLYURETHANE	SOLVENT - BASED ALKYL
Matting Efficiency*	+	-	=
Burnish Resistance*	+	++	+
Rub/Mar Resistance*	++	++	++
Viscosity Control*	+	=	+

- Slightly less efficient than conventional matting agents
- = Is equal to conventional matting agents
- + Better than conventional matting agents
- ++ Significantly better than conventional matting agents

- \* Matting Efficiency - Measured using BYK Gardner Micro-Tri-Gloss Meter.
- \* Burnish resistance test - MPI #139 (March 2018) modified with additional 500g weight and 250 cycles
- \* Rub/Mar resistance - Per modified MPI #139 (March 2018) Burnish resistance test, visual inspection of damaged surface
- \* Viscosity Control - Viscosities are measured with a standard Brookfield Viscometer



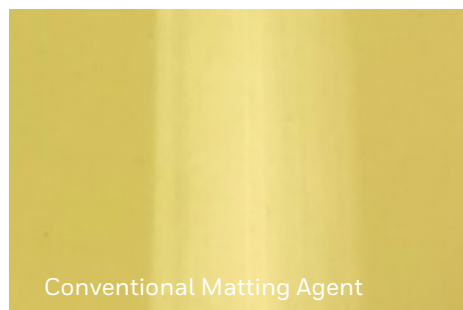
## ENDURABILITY OF MATTE FINISH - POST 500 CYCLES



Gloss readings are at 85° gloss angle using the BYK Gardner Micro-Tri-Gloss Meter. 5% w/w loading level post added in water-based acrylic coating. Burnish tested after 200 cycles with 4 pounds (1.81 kgs) weight.

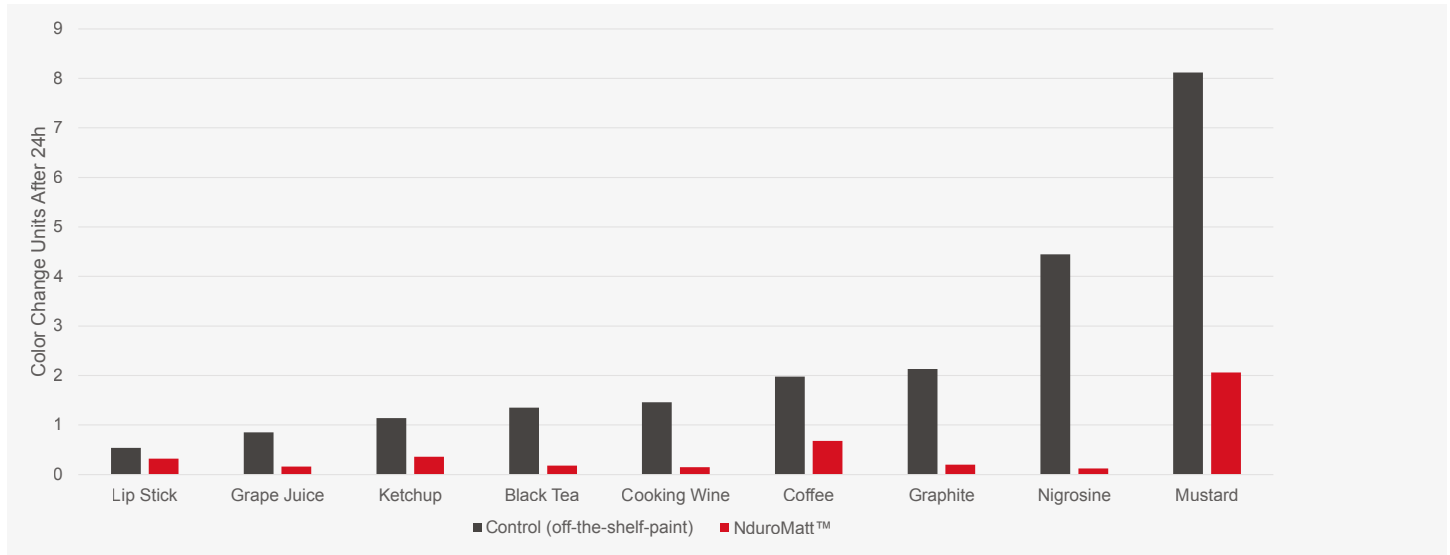
### Test Conditions:

BYK Gardner abrasion/scrub tester, rayon pad, 200 cycles with an additional 500 grams of weight. Matting agent loading level 5% w/w in high gloss water based acrylic coatings.



## NDUROMATT® STAIN RESISTANCE

Nduromatt®s resist the staining of even off-the-shelf paints



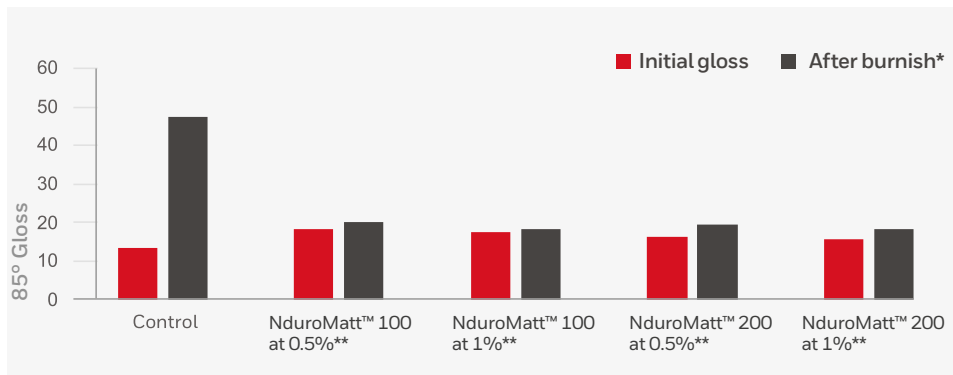
### Recommendation for performance improvement of matte coatings matted with conventional matting agents (0.5 – 2% w/w, post add):

VALUE PROPOSITION	WATER-BASED ACRYLIC/VINYL	SOLVENT-BASED 2K POLYURETHANE	SOLVENT-BASED ALKYD
Burnish Resistance*	++	++	+
Rub/Mar Resistance*	++	++	++
Storage Stability*	=	=	=

- = Is equal to conventional matting agents
- + Better than conventional matting agents
- ++ Significantly better than conventional matting agents

\* Burnish resistance test – MPI #139 (March 2018) modified with additional 500g weight and 250 cycles  
 \* Rub/Mar resistance – Per modified MPI #139 (March 2018) Burnish resistance test, visual inspection of damaged surface  
 \* Storage stability – Stored at room temperature for 42 days, visual inspection of coating

### Burnish resistance improvement with the addition of NduroMatt™ to matte coating.



\* 400 cycles with 4 pounds (1.81 kgs) weight  
 \*\* Post added w/w loading

All statements and information provided herein are believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind, express or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty, that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated herein, or that other measures may not be required. User assumes all liability for use of the information and results obtained.



#### For additional information

or to contact us, please visit

[honeywell-additives.com](http://honeywell-additives.com)

BRO-23-31-EN | 02/23  
 © 2023 Honeywell International Inc. All rights reserved.

**THE  
 FUTURE  
 IS  
 WHAT  
 WE  
 MAKE IT**

**Honeywell**