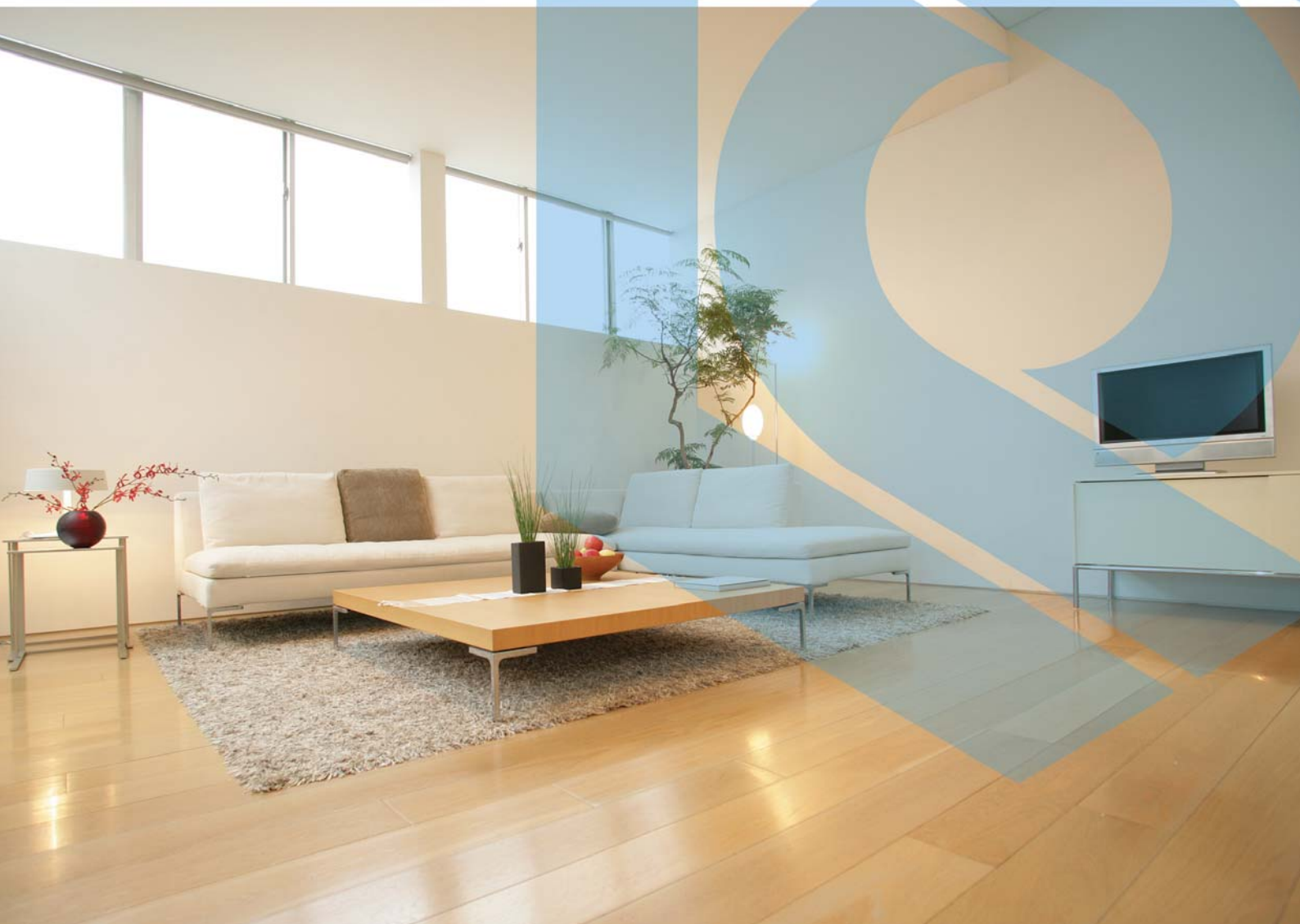


# **GASIL HP610 NOVEL MATTING AGENT FOR UV CURABLE COATINGS**



# GASIL HP610

## NOVEL MATTING AGENT FOR UV CURABLE COATINGS

UV and EB curing are the technologies of choice for coatings when a decrease in VOC emissions and an increase in operational productivity are sought. Their use is widespread and still growing in Wood and Plastic Industrial Coatings and in the Graphic Arts. Other sectors, such as Metal and Automotive Coatings, are also increasingly adopting radiation cure. The achievement of a matt finish has always represented a challenge for the formulator of UV and EB coatings. Conventional matting agents designed for solvent based, low solids, paints fail to show high matting efficiency in these finishes characterised by low film shrinkage and high viscosities and solids.

PQ Corporation with its longstanding expertise in this sector is pleased to launch Gasil HP610, a new silica matting agent for radiation curable coatings. This product displays high matting efficiency in most UV curable coatings without the viscosity increase and foam stabilisation often caused by silica matting agents.

### BENEFITS OF GASIL HP610:

#### Matting efficiency:

Gasil HP610 displays high matting efficiency in most UV/EB curable finishes with significant advantages in thin (<15µm) coatings.

#### Transparency:

A loss in transparency is unavoidable when gloss decreases. Thanks to its special organic treatment Gasil HP610, while reducing gloss, maintains good transparency in most coatings.

#### Foam:

The addition of HP610 to 100% solids radiation curable finishes generates minimum foam that is easily released.

#### Dispersibility:

Easily dispersible at any stage of the manufacturing process.

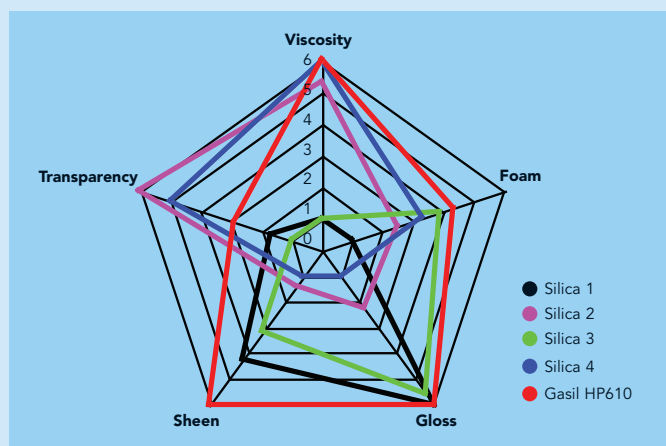
#### Mar resistance:

Coatings formulated with HP610 have good mar and scratch resistance.

### Physical Properties of Gasil HP610

Physical Property	Typical Value
APS(Malvern 100mm lens), microns	10.0
Pore Volume (ml/g)	1.8
pH(5% aqueous suspension)	3.5
Loss at 1000 °C (%)	12
Surface Treatment	Wax

### Comparison of Performances of Gasil HP610 to other silica matting agents in 6µm coatweight Epoxy Acrylate Wood Coating (7.7% silica)



1=poor, 6=good

GASIL® is a registered trademark

March 2009 PQ110-1