

Rheology Modifiers

Mastery
of waterborne rheology



Highlights

Overall

1,283

Total number of employees worldwide

199,916 tons

Quantity of finished products sold

422 million €

Net group sales

34

Total number of operations

Science

431

Number of active patents

>90%

Eco-friendly products

17%

Employees in R&D

32.2%

Products of natural origin
(agro and personal care)

Sustainability

0.85 n° Ita* / 1.000.000 work hours

Accidents - index of frequency

57,258 tons CO₂

Escopes 1 and 2 GHG emissions

881 ML

Waterwithdrawal

885,157 GJ

Energy consumption



Rheology Modifiers at Lamberti

A brief overview of product families and chemistries for waterborne systems

SYNTHETIC POLYMERS

 **Viscolam[®]**

NATURAL POLYMERS

 **Esacol[®]**

 **Carbocel[®]**

ACRYLIC
INVERSE
EMULSIONS

POLYURETHANE

ACRYLIC DIRECT
EMULSIONS

HYDROCOLLOIDS



Product portfolio

Our waterborne synthetic polymers and microbeads portfolio embraces a broad variety of B2B products, designed to provide **accurate technical solutions** to our customers.

We focus on **innovation** both for the development of new products, and for the improvement of existing ones to fulfill the latest **regulatory restrictions** maintaining performances at high levels.

We are open to develop **tailor-made products** based on specific requirements and we can provide **technical assistance** throughout the formulation process with our products.



Polyurethane Thickeners

Top performance for high
quality waterborne coatings



Polyurethanes thickeners in waterborne coatings

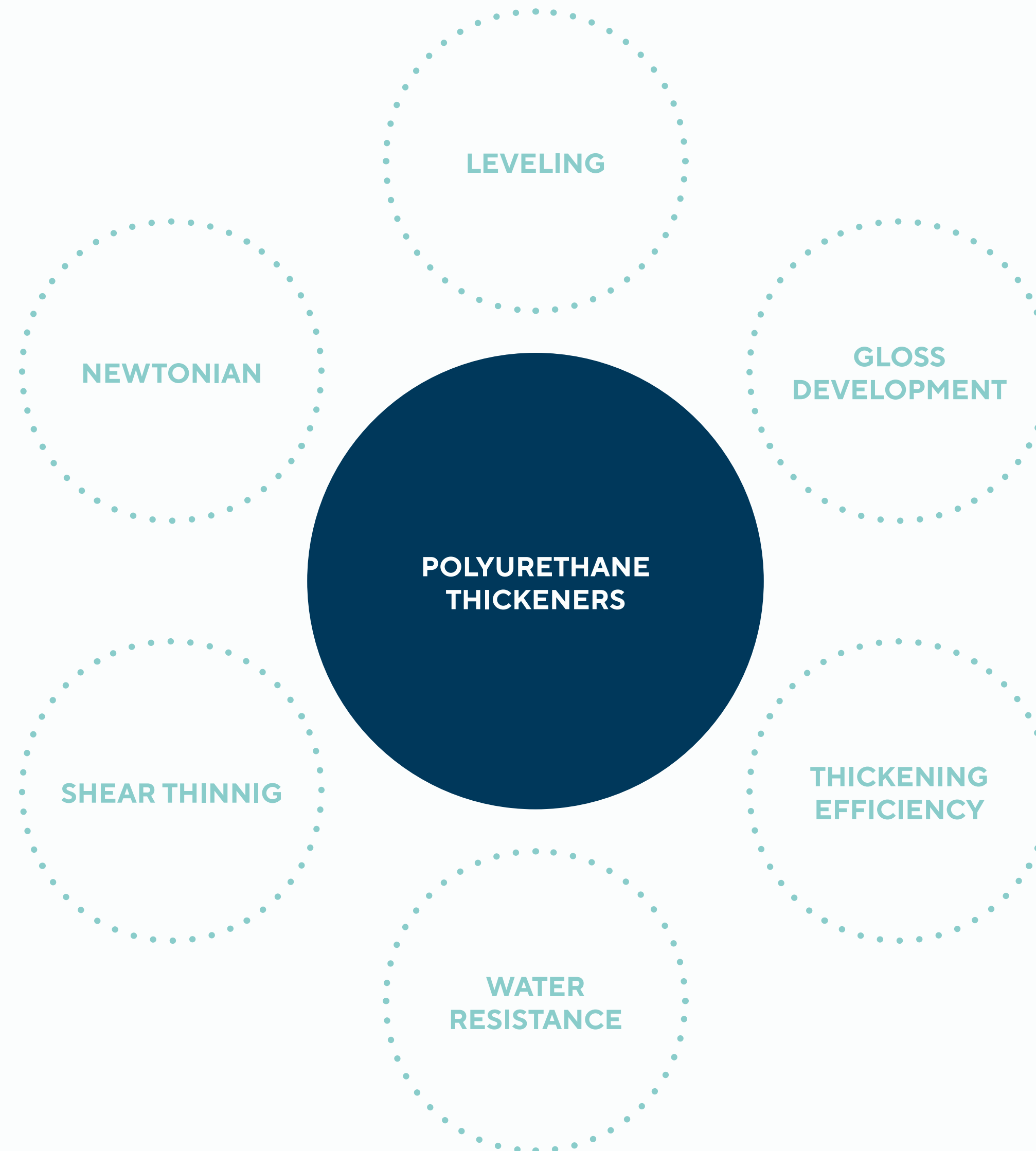
Associative polyurethanes provide performances in systems containing hydrophobic binders (e.g. protective coatings and enamel paints), and are key ingredients when wash-ability or outdoor resistance are mandatory.

Tailor-made design allows to achieve rheological profiles that cannot easily, or not at all, be obtained with other technologies.

Their peculiar visco-elastic behavior improves the flow-ability of waterborne formulations, making them the premium choice for high quality paints, varnishes, floor coatings and high gloss enamel paints.



Key-features of polyurethane thickeners





Acrylic emulsions

Versatility and
cost-effectiveness



A broad selection of rheology

Acrylic based VISCOLAM[®],
can be divided in:

Alkali Swellable Emulsions (ASE)

provide thickening without interacting
with other ingredients: versatile solution,
with perfect colour acceptance
and rheological behaviour

Hydrophobically modified Alkali Swellable Emulsions (HASE)

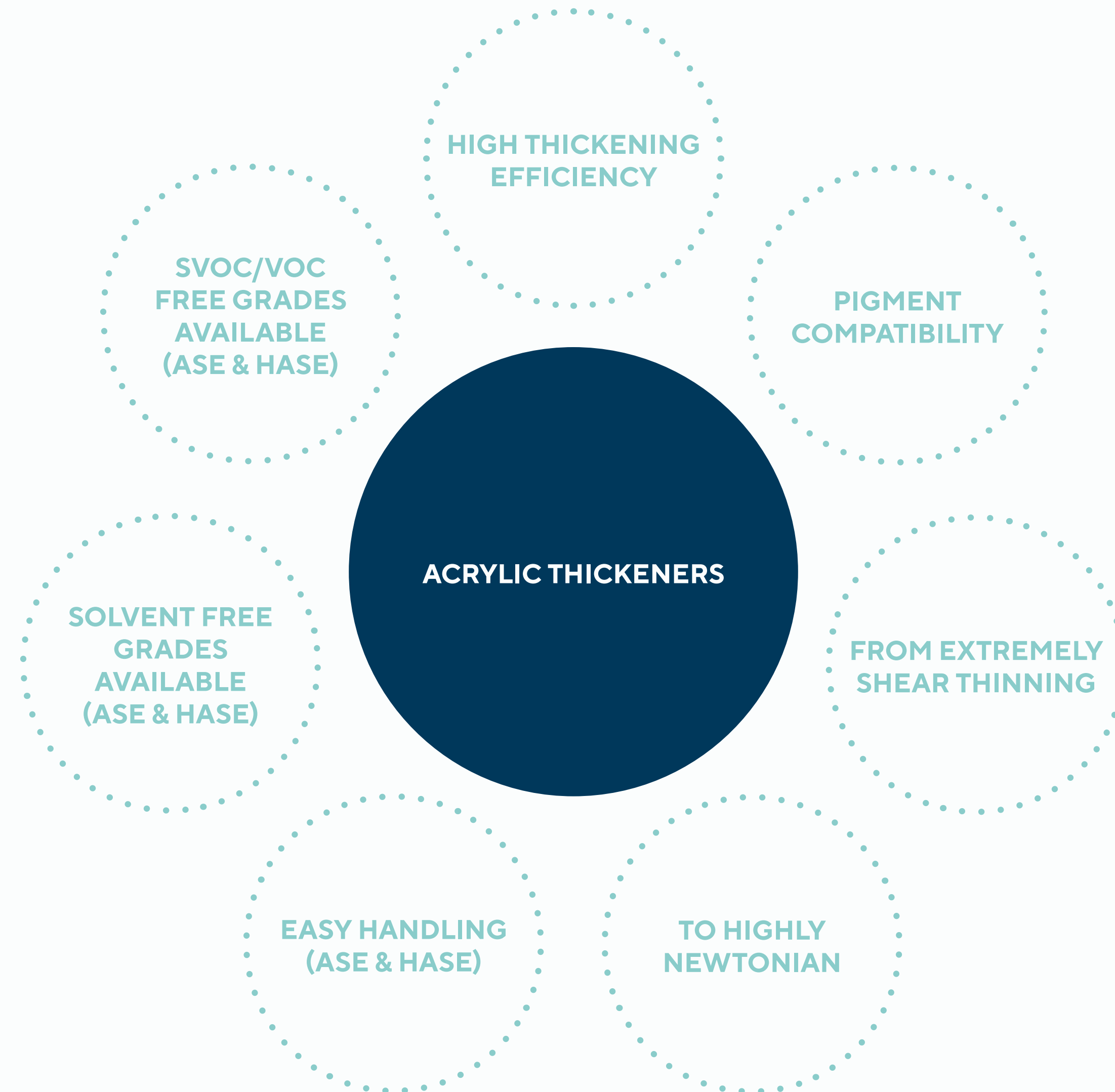
improved cost/performance ratio,
achieved through interaction with other
ingredients in final systems.

Hydro Swelling Droplet (HSD) thickeners

Emulsifiers with high thickening
capability find its application in putties
and highly textured formulations.



Key properties of acrylic thickeners





Natural based rheology modifiers

Waterborne thickener
solutions in constant dialogue
with nature to encourage
its ingenuity



Polysaccharide derivatives with tailored structures and rheology





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