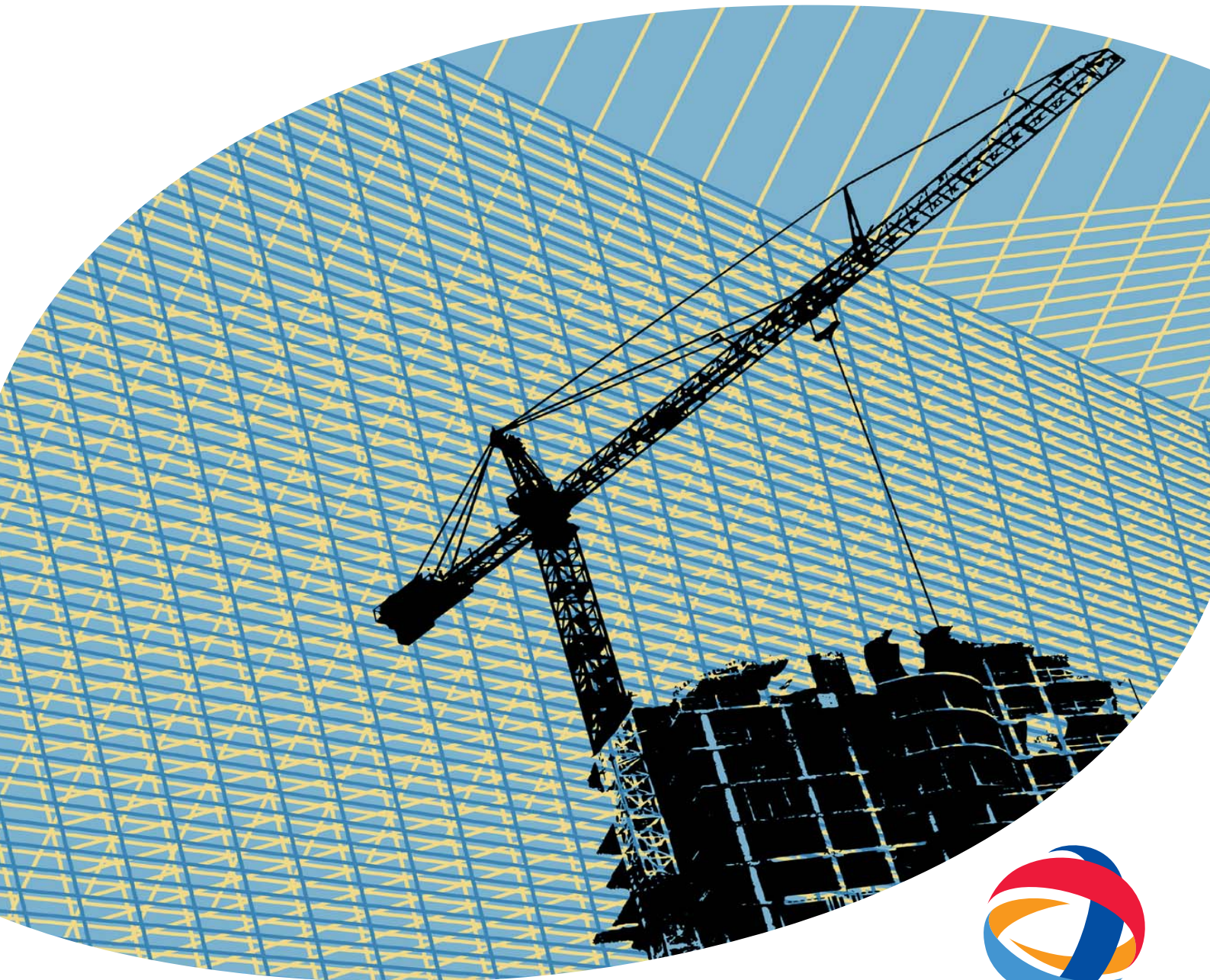


# **Optimised plasticisers for Silicone Sealants**

**The Hydroseal Range**



**TOTAL**

# Hydroseal – organic plasticisers and extenders for Silicone Sealants

Total's Hydroseal range enables the formulator to fine-tune the critical balance between sealant performance & formulation cost. Extremely pure, Hydroseal products deliver excellent UV resistance, whilst their unique composition and unmatched polymer compatibility allow the ideal compromise between high hydrocarbon content and acceptable shrinkage to be selected.

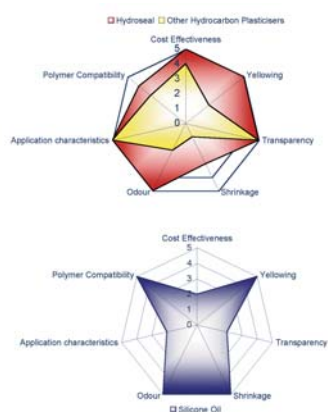
## The Role of Viscosity Depressants

Organic plasticisers substantially reduce formulation costs and deliver improved transparency & rheology characteristics. These advantages must however be qualified against the recurrent problems of increased volume shrinkage and yellowing that result from the use of impure products.

Total's extremely pure Hydroseal range has been specifically developed to minimise all of the potential disadvantages inherent in the use of an organic plasticiser.



## Technical characteristics to meet your needs



The Hydroseal range delivers the best possible overall technical performance to the formulators palette. More cost efficient than silicone oils and even other hydrocarbon plasticisers, Hydroseal deliver the UV resistance and lack of odour normally achieved only by silicone oils.

When compared to silicone oils, Hydroseal substantially improve transparency and ease application, reduce unwanted stringing effects and facilitate smoothing within the joint being sealed.

Two of the key objectives when developing the Hydroseal range were to address the problems of shrinkage and polymer compatibility inherent in the use of organic plasticisers. A series of different Hydroseal grades, matching the requirements of different sealant qualities, enable the formulator to choose the most suitable product and concentration for the sealant being developed.

## The Hydroseal Range

The Hydroseal range is made up of 3 products, specifically designed for different sectors within the silicone sealant marketplace.

- **Formulations destined for low cost, DIY applications:** Hydroseal G250H enables very high concentrations of organic plasticisers to be used, up to and including 45%.
- **General formulations:** Hydroseal G 3 H is the “standard” Hydroseal grade – that can be used to formulate both low cost sealants (at concentrations of up to 40%) and higher quality sealants with lower extender content and improved shrinkage performance. Hydroseal G 3 H represents an excellent compromise between price and quality.
- **Standard sealants and products for professional applications:** Common to the other products in the Hydroseal range, Hydroseal G 400 H allows relatively high concentrations of organic plasticisers to be used (up to and including 25%). In addition, and even at relatively high levels of extension, formulations developed with Hydroseal G 400 H also display excellent shrinkage properties (less than 10% if required, ISO 10563).

