



## KURARAY POVAL™ Oil & Gas Applications

KURARAY POVAL™, EXCEVAL™, ELVANOL™ and MOWIFLEX™ are the trademarks for polyvinyl alcohols made by Kuraray. Their key characteristics – outstanding film-forming properties and high binding strength – add real value to your products. Our polymers are water-soluble, highly reactive, crosslinkable and foamable. They have high pigment binding capacity, protective colloid characteristics and thickening effects. The physical and chemical properties of KURARAY POVAL™ make it ideal for a wide variety of applications, ranging from adhesives through paper and ceramics to packaging

films. Many of our polymers are food contact-approved and thus suitable for food applications. Ecologically KURARAY POVAL™ is advantageous due to its biodegradability and the fact that combustion does not generate residues. It is available in various particle sizes from granules to fine powders. Kuraray produces its wide range of KURARAY POVAL™ grades in Japan, Singapore, Germany and the USA. Kuraray's global production and service network make us your partner of choice for innovative high-quality PVOH resins. **KURARAY - Here to Innovate.**

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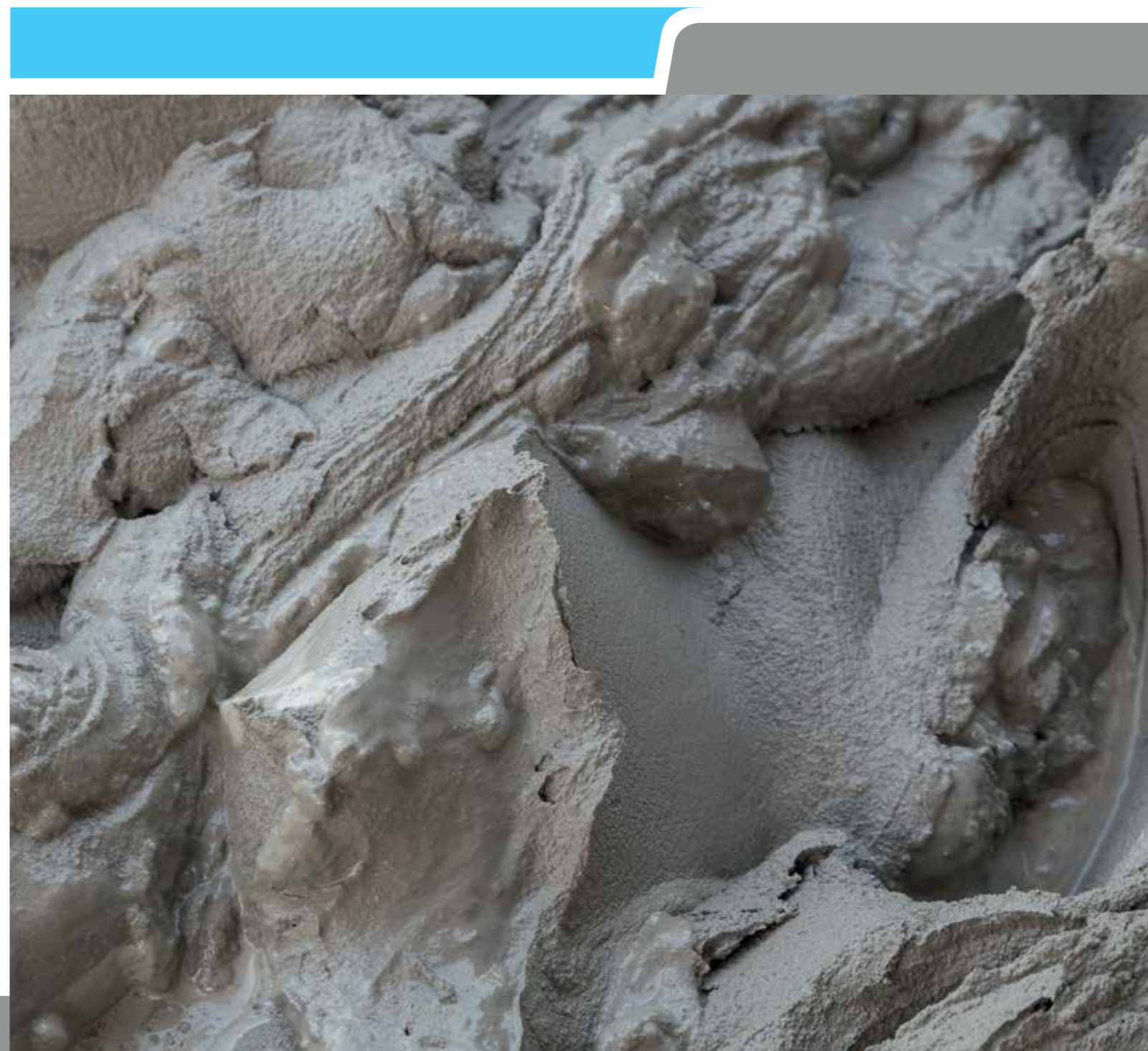
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## What is KURARAY POVAL™ resin?

KURARAY POVAL™ is the brand name of Kuraray's globally produced polyvinyl alcohol (PVOH). KURARAY POVAL™ features an extremely wide range of applications.

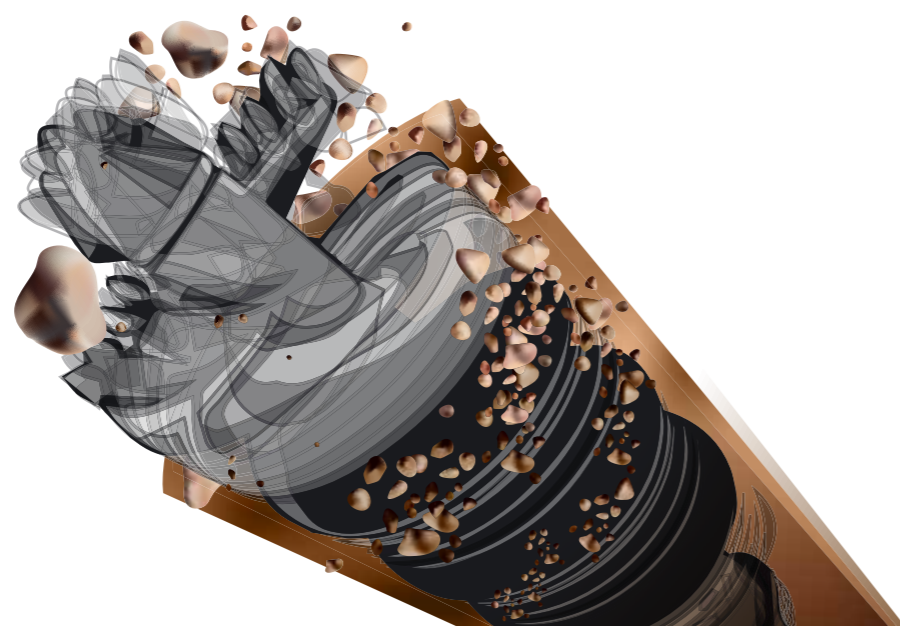
## Why use KURARAY POVAL™?

KURARAY POVAL™ resin, when mixed with cement powder, water, dispersant and defoamer, will prevent fluid loss to the formation in cementing operations. KURARAY POVAL™ is an excellent binder, reduces fluid loss, reduces water production in the cementing process, and is compatible with other cement additives.

It contributes to cost savings by enabling fast and cost-efficient oil well construction and has shown no retardation effect on the cement setting time.

### Application

Additive for oil well-cementing operations



## Key Benefits of KURARAY POVAL™:

- + Reduces fluid loss during cementing up to 150°F
- + Lower cost than other fluid loss additives
- + Does not retard the set-time at bottom-hole circulating temperatures
- + Good compatibility with other cement additives
- + Improves rheological properties

