

## Product Data Sheet

# CSR 20 and CSR100

## Latent Catalysts

**CSR20** and **CSR100** are blendable latent catalysts for use with acid polymerisable pre-polymers including phenolic, furan and amino resins. The latent catalyst technology is based on thermally decomposable hydroxylamine chemistry. The catalysts contain strong acids including nitric acid. **CSR20** is a reactive form for use with low condensed polymers. **CSR100** is a slower reactivity grade for use with pH sensitive resins. The catalysts are offered as a twin pack to allow blending of the liquids to suit the resin reactivity. **CSR** catalysts are rapidly activated at temperatures above 120°C. Slower activation at temperatures above 50°C is possible. **CSR** catalysts are water soluble.

**\*CSR Latent Catalysts should be treated as strong acids when first mixing with acid curable resins\***

Properties	CSR20	CSR100
Form	liquid	liquid
Colour	clear	clear
Acid concentration	3.65 moles l <sup>-1</sup>	2.60 moles l <sup>-1</sup>
Specific gravity	1.189 g cm <sup>-3</sup>	1.175 g cm <sup>-3</sup>
Solvent	water	water
Solubility	Soluble in water, alcohols and glycols. Insoluble in esters.Reactive with ketones	

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- Applications:** Compression moulding, glass composite, carbon and graphite composites, foams, inks, coatings, pre-pregs, binders.
- Blending:** **CSR20** and **CSR100** can be mixed in any proportion. If the pot life of the resin system with **CSR20** is not long enough then blend in increasing quantities of **CSR100**. When the desired pot life and reactivity are reached then Bac2 can supply a customised blend or the blend option can be used to provide adjustments to reactivity and pot life dependent on ambient temperature variations.
- Addition rates:** Typically 1.0% to 10% based on resin weight. If resin pH is high then higher percentages may be required.
- Mixing:** Can be mixed into resin or added to resin during pre-mix production. Consult with Bac2.
- Shelf life:** 12 months at ambient temperature in sealed container. If crystals form then warm to 30°C until dissolved.
- Handling and Storage:** Avoid inhalation of vapour or mist.  
Product should be stored between 20 and 25°C in plastic containers.  
See supplied MSDS

**Bac2's latent catalysts are based on recently filed WIPO Patent Application WO/2010/094979** Further technical information may be obtained from Bac2 Ltd.  
Notice to Users: To the best of our knowledge, the information contained herein is accurate. Final determination of suitability of the material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.