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Product Data Sheet

CSR 150 and CSR250

Liquid Latent Catalysts

CSR150 and CSR250 are blendable latent catalysts for use with acid polymerisable pre-polymers including urea-formaldehyde resins. The latent catalyst technology is based on thermally decomposable hydroxylamine chemistry. The catalysts contain strong acids including nitric acid. **CSR** catalysts are rapidly activated at temperatures above 120^{o}C. Slower activation at temperatures above 50^{o}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	CSR150	CSR250
Form	liquid	liquid
Colour	clear	clear
Acid concentration	1.215 moles l^{-1}	0.920 moles l^{-1}
Specific gravity	1.15 g cm^{-3}	1.147 g cm^{-3}
pH	6.5-7.0	7.5-8.5
Solvent	water	water

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CSR 150 and CSR250

Liquid Latent Catalysts

Applications: Compression moulding, laminates, coated abrasives, adhesives, coatings.

Addition rates: Typically 0.5% to 3% based on resin weight.

Blending: **CSR150** and **CSR250** can be blended together in any proportion. If the pot life of the resin system with **CSR150** is not long enough use a blend containing an increased ratio of **CSR250**. 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.

Mixing: Can be mixed into resin or added to resin during pre-mix production. Always assess the resin stability. Consult with Bac2.

Resin pot life: When the required level of CSR150 is added to the UF resin a pot life of 24hours at 20^{o}C is expected.

Cure Temperature: Cure temperatures may be **significantly** reduced

Catalyst Shelf life: 12 months at ambient temperature in sealed container. If crystals form then warm to 30^{o}C until dissolved.

Handling: Avoid inhalation of vapour or mist.

Storage: Product should be stored between 20 and 25^{o}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.