

North Sea Resins Industrial Repair Selector Guide

www.northsearesins.com



North Sea Resins , a Division of MedHesives, Inc 115 Research Drive phone 610 419 4888 Bethlehem, PA 18015 fax 610 419 4889 www.northsearesins.com					Cure-On-Command Resin Formulation for Harsh Environments			
	NSR150	NSR250	NSR390 Filler					
Use Considerations								
Single component resin-- No mixing required	Yes	Yes	Yes					
Package	Syringe	Syringe	Flip-top container	Syringes have screw cap that allows for multiple uses. Flip top container can is recloseable for multiple uses.				
Application Method	NSR Tab	NSR Tab	Putty Knife	NSR Tabs are not required. NSR Tabs assist in applying resin onto the surface and securing the resin in place through light cure step				
Harsh Environments								
Temperature Conditions for Curing (degF)	28 to 104	28 to 104	28 to 104	Strength and cure time effective at high and low temperature				
30 Second Cure time for use in open air	Yes	Yes	Yes	30 second functional cure when used with NSR Light				
30 Second Cure time for use underwater	Yes	Yes	Yes	30 second functional cure when used with NSR Light				
Applications								
Adhesion to Metals (Copper, Brass, Steel, Cast Iron, Lead Pipe, Black Pipe, Aluminum)	Good	Best	Better	See Technical information for details				
Adhesion to Plastics (FRP, ABS, HDPE, PVC, CPVC, PEX tubing, Gelcoat)	Best	Good	Better	See Technical information for details				
Adhesion to Wood	Better	Better	Better	See Technical information for details				
Adhesion to Concrete	Best	Better	Better	See Technical information for details				
Adhesion to Rubber	Poor	Poor	Poor	Resins not recommended for use with rubber				
Vertical or Horizontal fill applications.	Good	Good	Best	Consideration of resin running prior to light activation				
Pin-hole, crack, joint, elbow, pipe and tank repair	Preferred	Preferred	Limited	NSR150 & NSR250 are NSF 61 approved for use on Drinking Water Systems.				
Low pressure applications, filler	Better	Better	Best					
Use with mesh wraps for reinforcement	Best	Best	Not Applicable	Fiberglass included in kits and refill packs, see Technical information for details.				
Post Cure Characteristics								
Temperature Resistance (degF)	-65 to 300	-65 to 300	-65 to 300					
Can be sanded	Yes	Yes	Yes					
Can be painted	Yes	Yes	Yes					
Tacky residue if cured in air	Yes	Yes	No	NSR Applicator Tabs eliminate tacky residue. Tacky feel does not impact strength of bond.				
Benefits								
	Cure-On-Command	Cure-On-Command	Cure-On-Command	Resin cures upon activation by visible blue light. Use NSR LED Flashlights for fast cure time				
Limitations								
	Light reaching bond line	Light reaching bond line	Light reaching bond line					

Repair Kits

	Part Number
Field Service Tech Kit	NSRFS1525
Durable Tool case for storage	
10-LED High Intensity Blue Industrial Light	
Stylus Light, single Blue LED for small spaces	
NSR150-5, resin for plastics, composite, wood	
NSR250-5 resin for metals	
Applicator Tabs, Surface Prep Pads, Fiberglass	
Applicator Assist Disk	
Rapid Repair Kit for Metals	NSRK250
4-LED High Intensity Blue Dive Rated Light	
NSR250-5 resin for metals	
Applicator Tabs, Surface Prep Pads, Fiberglass	
Rapid Repair Kit for NonMetals	NSRK150
4-LED High Intensity Blue Dive Rated Light	
NSR150-5 resin for plastics, composites, wood	
Applicator Tabs, Surface Prep Pads, Fiberglass	

NSR150 and NSR250 are certified by UL according to NSF Standard 61 for use on drinking water systems.