North Sea Resins 2015 Selector Guide Chem Res

## North Sea Resins Industrial Repair Selector Guide

North Sea Resins	Cure-On-Command Resin Formulation for Harsh Environments  Comment			
950 Danby Road Suite 300 Ithaca NY 14850 www.northsearesins.com				
Use Considerations				
Single component resin No mixing required	Yes	Yes		
Package	Syringe	Syringe	Syringes have screw cap that allows for multiple uses. Flip top container can is recloseable for multiple uses.	
Application Method	NSR Tab	NSR Tab	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	Strength and cure time effective at high and low temperature	
30 Second Cure time for use in open air	Yes	Yes	30 second functional cure when used with NSR Light	
30 Second Cure time for use underwater	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	See Technical information for details	
Adhesion to Plastics (FRP, ABS, HDPE, PVC, CPVC, PEX tubing, Gelcoat)	Best	Good	See Technical information for details	
Adhesion to Wood	Better	Better	See Technical information for details	
Adhesion to Concrete	Best	Better	See Technical information for details	
Adhesion to Rubber	Poor	Poor	Resins not recommended for use with rubber	
Vertical or Horizontal fill applications.	Good	Good	Consideration of resin running prior to light activation	
Pin-hole, crack, joint, elbow, pipe and tank repair	Preferred	Preferred	NSR150 & NSR250 previously received NSF 61 approval for use on Drinking Water Systems.	
Low pressure applications, filler	Better	Better		
Use with mesh wraps for reinforcement	Best	Best	Fiberglass included in kits and refill packs, see Technical information for details.	
Post Cure Characteristics				
Temperature Resistance (degF)	-65 to 300	-65 to 300		
Can be sanded	Yes	Yes		
Can be painted	Yes	Yes		
Tacky residue if cured in air	Yes	Yes	NSR Applicator Tabs eliminate tacky residue. Tacky feel does not impact strength of bond.	
Benefits	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		

## www.northsearesins.com



## **Chemical Resistance\***

Conc %	Effectiveness**
100%	Acceptable
50%	Acceptable
37%	Acceptable
100%	Acceptable
100%	Acceptable
13%	Acceptable
25%	Acceptable
13%	Acceptable
98%	10 days
70%	10 days
	100% 100% 100% 100% 50% 37% 100% 13% 25% 13%

\* NSR Resins are intended for use as temporary,rapid repairs, allowing for scheduling of disruptive, replacement maintenance.

<sup>\*\*</sup> Test conditions- 1/8" hole in pipe, repaired with resin. Repair fully exposed to chemical.