# SRH

## PRODUCT DESCRIPTION

NEOCHEM SRH is a patented two-component hybrid polyurea/polyurethane. SRH is designed for use as a rapid setting structural repair material and as a grouting material for filling the pores, pinholes, spalling, pitting, hairline cracks, scratches, and gouges to enhance the appearance of polished concrete. SRH may be mixed with dry aggregates to create a high strength polymer mortar. When SRH is applied to sound, properly prepared concrete, it creates a high strength repair. SRH may also be installed as a protective wear layer as part of a polished concrete system.

NEOCHEM SRH is formulated to be a versatile material used for permanently filling voids, providing a temporary protective layer, creating a higher gloss with depth of image in polished concrete flooring systems, and maintaining stability and flexibility as a high strength polymer repair mortar.

## APPLICATIONS

- Polished Concrete
- Terrazzo
- Self-Leveling Overlays
- Cementitious Micro-Toppings
- Repairs and Patching for Polished Concrete
- Temporary Protective Layer
- Repairs and Patching Under Coating Systems
- Joint Repair and Rebuild
- Repairs for Damage Concrete

## EQUIPMENT

- Heavy-duty drill with the appropriate size mixer depending on amount of material being mixed.
- Mixing containers
- Hand trowels
- Steel blade such Bon Tool

## FEATURES & BENEFITS

- No odor
- Rapid cure/return to use – foot traffic in approximately 20 minutes
- Grindable in approximately 30 minutes
- Product stability – no foaming when mixed in larger quantities
- Can be mixed with variety of dry aggregates
- Improves gloss and DOI
- Permanent
- Tintable
- Low Viscosity

## PRODUCT INFORMATION

NeoChem SRH Part A ISO – Dark Amber

NeoChem SRH Part B Polyol – Clear

SRH is tintable with NeoTint pigment additive – 1 NeoTint pigment pack will make 10 gallons of mixed SRH. Mix SRH Part B Polyol with NeoTint pack then mix SRH Part A and Part B

| PHYSICAL PROPERTIES | |
|---|---|
| Form / Appearance | Amber / Liquid cures to milky color with no pigment |
| Components | 1 Part A-ISO / 1 Part B-Polyol |
| Mix Ratio | 1:1 |
| WT/GAL | 10 lbs. |
| Mixed Viscosity | 175cp |
| Total Solids | 100 % |
| VOC Content (EPA Method 24) | < 50 |
| Working Time | 8-15 minutes |
| Coverage | 450 – 1000 SFG as tight grout |
| | Varies when mixed with dry aggregate |

| PHYSICAL PERFORMANCE | |
|---|---|
| Adhesion to Concrete | ASTM D7234 >300 PSI |
| Compressive Strength | ASTM D695 6,500 PSI |
| Elongation | ASTM D638 3 % |
| Hardness, Shore D | ASTM D2240 75 - 84 |
| Shrinkage | C531 Negligible |
| Tear Strength | ASTM D624 285 LBS/FT |
| Tensile Strength | ASTM D624 4,500 PSI |
| Air | 35° – 95°F / 2° – 35°C |
| Surface | 35° – 95°F / 2° – 35°C |
| Material | 55° – 80°F / 14° – 26°C |

# SRH

## SURFACE PREPARATION AND APPLICATION

Concrete must be sound, clean, dry, free of loose aggregates in the substrate, free of contaminants such as dirt, dust, grease, oil, silicone, and other contaminants that may negatively affect adhesion. Concrete should be a minimum of 28 days old. Prior to grout coat, concrete surface should be ground with initial course grits and taken up to a 80/100 metal bond finish. Remove loose concrete chips or spalls and areas that are not structurally sound. For best results run floor scrubber dry with just aggressive stiff brushes to loosen up any dust that may be embedded into the surface defects and voids then completely vacuum the entire floor. DO NOT wet scrub prior to installing SRH. Moisture and concrete slurry will prevent SRH from properly working. Moisture in any of the voids may cause the material to foam. After application, it is recommended using the least aggressive diamond tooling possible, such as 50 grit hybrid ceramics/resins, to avoid opening up the concrete to additional pits, holes, or voids.

POPOUTS, VOIDS OR SPALLS - Pop outs, cracks or voids larger than ½" should be repaired by mixing dry aggregate with the SRH. RANDOM CRACKS Cracks wider than 1/8" should be cleaned using a crack chasing blade, wire brush or Nylox wheel. Vacuum cracks out entirely and prefill using SRH before coating the entire floor to ensure a flush repair.

1. Only mix enough material that can be applied in 10-15 minutes. NC SRH is a 1 to 1 mix ratio by volume. Premix or agitate Part B. Mix tint pack into Part B for 2-3 minutes and then mix Part A into pigmented Part B for 45 – 60 sec at low speed using a mechanical mixer. Mixing longer than 60 seconds can cause material to catalyze faster and reduce working time. Using SRH as Polymer Structural Repair product, combine 1 part mixed SRH with 2, 3, or 4 parts dry aggregate to produce the desired consistency. Different types and sizes of dry aggregate will produce polymer mixtures with different aesthetics. Combining more dry aggregate with mixed SRH will result in a less fluid polymer product, less dry aggregate blend will result in a more fluid polymer product.

2. Immediately pour the mixed material onto the floor and spread using a straight metal blade, ridged trowel, or flat stiff squeegee. Spread the material and then overlap the coated area a second time to be sure all voids are filled in both directions. Closely examine troweled areas that may have not been filled and pass over again. In some circumstances a second coat may be needed to fill voids flush with the surface.

3. In standard conditions at 75°F and 45% R.H. surface can be walked on in 20 minutes and ready for grinding in 30 minutes - 1 hour. Cooler temperatures and/or lower humidity can slow down the cure time, and warmer temperatures and/or higher humidity can speed up the cure time. It is always best to test a small area to determine that the material is ready to grind off. Always insure SRH is fully cured before grinding. Trying to remove material that hasn't fully cured may build up residue on grinding tools and smear.
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## APPROXIMATE COVERAGE

Coverage rate determines surface porosity and polished level.
On polished or honed concrete for best results:
1500 - 2500 sq. ft./gal.

## DRYING TIME

SRH is typically dry in 20-30 minutes or less depending on surface and environmental conditions. Higher humidity and/or lower temperatures could slow dry time. Hot and/or windy conditions could cause rapid drying. Surfaces are typically ready to receive traffic in 60 minutes. Surfaces should be protected from moisture exposure for 72 hours.

## CLEAN UP AND DISPOSAL

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state, and federal regulations when disposing of materials.

## SHELF LIFE AND STORAGE

Keep product stored in temperatures between 50°F–85°F (10°C–29°C). One year shelf life when properly stored in sealed, unopened container in a dry location with humidity maintained at 65% or below.

## MAINTENANCE

To maintain the appearance for long-term performance and life expectancy of the newly finished surfaces, it is imperative to provide routine maintenance. To increase the life of the surface, use inside and outside walk-off mats. Daily sweeping to remove dirt, dust, and debris from the surface using a microfiber pad or dry dust mop will improve longevity and appearance. Cleaning spills immediately will mitigate potential damage. Acidic or aggressive cleaning products or improper use of equipment and products can damage a surface. Periodic recoating is recommended to maintain gloss and protection. Heavy traffic areas may require recoating with greater frequency.

# SRH

## LIMITATIONS

- Do not apply on damp or wet surfaces
- May exhibit color change if exposed to high UV
- Blend with sand if surface defects are greater than ½"
- More than one coat may be required depending on surface conditions
- Material must be ground even if coating over with epoxy
- Do not apply outside of the recommended temperature and humidity range
- Do not delay in mixing and pouring mixed material onto the floor
- Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes
- Do not use as a joint filler substitute

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## PACKAGING

1 Gal (3.8 L)
5 Gal (19 L)

## TECHNICAL ASSISTANCE

**Corporate Office**
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## TECHNICAL & SAFETY LITERATURE

To acquire additional information or technical and safety literature contact our office or visit our website: WWW.NCINFUSION.COM

## LIMITED WARRANTY

NeoChem warrants this product to be free from defects in the material(s) that affect its performance for a period of 1 year (from date of purchase). NeoChem will replace at no charge the quantity of the Product that NeoChem determines has failed to perform as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the Product. Proof of purchase is required. Cost of labor for application of any product specifically is excluded.