**Product Description**
Polyeuro® 1050H has NSF-61 approval for direct contact with potable water, and is recommended for use as a coating or lining on suitably primed carbon steel, non-ferrous metal and concrete. Polyeuro® 1050H offers a tack free time of less than five minutes and exhibits 20-30% elongation upon curing with 65 Shore D hardness.

**FEATURES**
- High Build, Quick Dry
- Low Temperature Flexibility
- Abrasion and Impact Resistant
- Horizontal Surface Application
- Plural Component Spray Application
- Chemical Resistant
- 100% Solids

**TYPICAL USES**
- Petrochemical Plants
- Pipe Lining and Repair
- Pulp and Paper Plants
- Secondary Containment
- Concrete/Steel Water Storage Tanks
- Water and Wastewater Treatment Plants
- Mining
- Power Plants
- Man Holes
- Pen Stocks

**TYPICAL SYSTEMS**

**CARBON STEEL**
**Primer:** Polyprime 3042  
**Finish:** Polyeuro® 1050H

**CONCRETE**
**Primer:** Polyprime 3042  
**Finish:** Polyeuro® 1050H

Refer to Specification Guide for further detail.

**COLORS**
Off-white with a medium sheen gloss.

**PACKAGING**

**160-gallon kit**  
Side-A (Isocyanate side): One 55 Gallon Drum, containing 53.4 gallons.  
Side-B (Resin side): Two 55 Gallon Drums, each containing 53.4 gallons.  
The volume mixing ratio is 1A : 2B.  
Contact Polycratt Products for product availability.

**Mixing**
Polyeuro® 1050H may not be diluted under any circumstances. Use appropriate cleaner for purge line and flushing of equipment and if spraying stops for periods exceeding the pot life of the material. Thoroughly mix Polyeuro® 1050H Side-B material with air driven power equipment until a homogeneous mixture and color is obtained. Opened mate-rial must be used within 1-2 days due to moisture sensitivity. Side-B must be thoroughly agitated for at least thirty (30) minutes prior to application. Total suspension must be achieved. Side-A requires no mixing.

**Surface Preparation**
In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyeurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating previously used substrates, it is important to consider the possibility of substrate absorption,
which may affect the adhesion of the coating system, regardless of
the surface preparation. Polycoat recognizes the potential for unique
substrates from one project to another. The following information is
for general reference. For project-specific questions, contact Polycoat.

NEW AND OLD CONCRETE
Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete
must be cured for 28 days prior to product application. Surface must
be clean, dry, sound and offer sufficient profile for product adhesion.
Remove all dust, dirt, oil, form release agents, curing compounds,
salts, efflorescence, laitance and other foreign matter by shotblasting
and/or suitable chemical means, in accordance with local chemical
regulations. Rinse thoroughly to achieve a pH between 8.0 and
11.0. Allow to dry completely. If old concrete has a surface that has
deteriorated to an unacceptably rough surface, Polycoat Products
PC-260 or a mixture of Polyprime 21 and sand should be used as a
repair agent for cracks, spalls, bug holes and voids. Upon full cure
of the repair agent, prime the entire surface intended for coating.

CONCRETE SURFACE PREPARATION REFERENCE
ASTM D4258 - Standard practice for cleaning concrete. ASTM D4259
- Standard practice for abrading concrete. ASTM D4260 - Standard
practice for etching concrete. ASTM F1869 - Standard test method
for measuring moisture vapor emission rate of concrete. ICRI 03732
- Concrete surface preparation.

WOOD
All wood should be clean, dry and free of any knots, splinters, oil,
grease or other contaminants. Splintered or rough areas should be
sanded. Knots should be repaired using Polycoat Products PC-260
with sand. Upon full cure of the repair agent, prime the entire surface
intended for coating.

STEEL (ATMOSPHERIC AND IMMERSION EXPOSURE)
Remove all oil, grease, weld spatters and round off any sharp edges
from surface. Minimum surface preparation is Near White Metal Blast
Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 3-4 mils.
Prime and shoot Polyeuro® onto any bare metal the same day as it is
cleaned to minimize any potential flash rusting.

GALVANIZED SURFACES
Clean and degrease any contaminated surfaces before priming. Do
not blast galvanized surfaces with an abrasive grit. An adhesion test
is recommended prior to starting the project.

FIBERGLASS REINFORCED PLASTIC
The gel coat should be lightly blasted or sanded with 80 grit sandpaper
and cleaned.

PLASTIC FOAMS
Enhanced adhesion is obtained when the foam is mechanically
abraded. When coating polystyrene, do not use a solvent-based
primer.

TEXTILES, CANVAS, FABRICS
Adhesion to most fabrics, geothermal membranes and textiles does
not require a primer.

STAINLESS STEEL
Stainless steel may be grit blasted and degreased before priming.
Contact Polycoat Products for recommended primer. Some stainless
steel alloys are so inert that it is not possible to achieve a satisfactory
bond. An adhesion test is recommended prior to starting the project.

ALUMINUM
Aluminum should be blasted with aluminum oxide or sand, and not
with steel or metal grit. Excessive blasting may result in a warped or
deformed surface. After blasting, wash aluminum with a commercially
available aluminum cleaner. Allow to dry, then prime. Contact Polycoat
Products for recommended primer.

NEW AND OLD CAST IRON
Blast with a steel grit and degrease before priming. Old cast iron
is difficult to prepare for a satisfactory bond. It can absorb oil and
water soluble contaminants that will keep returning to the surface
after the coating system has been applied and affect the coating
system adhesion. An adhesion test is recommended prior to starting
the project.

ALL OTHER SURFACES
An adhesion test is recommended prior to starting the project.

Application
Apply over prepared or suitably primed carbon steel or concrete.
Application temperature for Polyeuro® 1050H should be between
40-120°F with relative humidity of <85%. Do not apply product unless
temperature is at least 5° above the dew point. Recoat schedule is
1-3 hours dependent upon environment. See Specification Guide for
re-coating guidelines and additional information.

Application Methods
Check area of application to ensure that it conforms to the substrate
requirements.

Use Graco “Hydra-Cat” 45:1 Airless equipment or equal designed
for heated, plural-component, high pressure spray application. High
pressure equipment should have the capacity to apply product to a
maximum 2500 psi from the proportioner to meet job site conditions.
Heat and maintain material temperature in a range of 95-110°F
and utilize insulated material hoses and application equipment to ensure
spray consistency, metering and degree of cure of properly mixed
product. Band heaters should not be used to heat or maintain
temperature.

The conditioned materials shall be supplied to the proportioning
equipment at a flowable, pumpable viscosity, and in such volume
delivery to assure full supply for each pump stroke. Recirculation
system and solvent purge equipment is necessary to keep material
maintained and spray equipment clean during applica-tion stoppage
and/or for periods when exceeding the product potlife.

Equipment Cleanup
Equipment should be cleaned with an environmentally safe, ure-
thane-grade solvent (alcohol free) as permitted under local regulations
immediately after use.

Storage
Polyeuro® 1050H has a shelf life of one (1) year from date of
manufacture in original, factory-sealed containers at 75°F.
If stored for a long period of time, rotate Side-A drums regularly.

Limitations
Polyeuro® 1050H® is not recommended for prolonged exposure to
concentrated acids.
Do not open until ready to use.
Store drums on wooden pallets to avoid direct contact with the ground.
Avoid freezing temperatures.
Side-A drums must be stored between 70-95°F.
No liability is assumed by Polycoat Products for substrate defects
and/or improper substrate preparation and application.

Warning
This product contains Isocyanates and Curative Material.

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