

RTS Vehicular

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Product Data Sheet

7992 (66010)

Silica Quartz Sand Aggregate



Description:	7992 silica (quartz) sand (Hempel 66010) is uniformly graded (16-30 mesh) hard aggregate.
Recommended use:	7992 aggregate is used for skid resistance in Neogard fluid-applied coating systems.
Features:	Hardness of 6.5 or greater on Moh's Hardness Scale.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

7992 (6601009990)	White/Tan	100-lb bags
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Physical constants:

Generic Type	Silica (Quartz) Sand
pH	Neutral (6.9/7.0)
Sphericity	0.62
Roundness	0.68
Melting Point	2,800°F–3,100°F (1,538°C–1,705°C)
Specific Gravity	2.65
<i>The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.</i>	

Sieve #	Percent retained
12	0.0
16	1.5
20	61.8
25	29.8
30	6.0
40	1.8
Pan	0.1

Application details:

Application method:	Broadcast, rate according to Neogard system Guide Specifications.
Safety:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Storage:	Store in a dry area.

Product Data Sheet

7992 (66010)

Silica Quartz Sand Aggregate



Note: **7992 is for professional use only.**

Issued by: Hempel (USA) – 66010

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Product Data Sheet

100 RTS — Concrete and Metal Primer 256JB: Base 256J9 : Curing Agent 95UJB



Description:	100 RTS (Hempel 256JB) is a 100% solids methyl-methacrylate (MMA) primer.
Recommended use:	As a primer for cured concrete and metal surfaces before applying Neogard RTS vehicular and pedestrian traffic systems.
Features:	Very fast cure, between 30–60 minutes depending on temperature. Can be applied at temperatures as low as 23°F/-5°C. Contact Neogard if applying below 30°F/-1°C. Must be mixed with Neogard 600 RTS BPO Initiator (see chart below).
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

100 RTS (256J900000)	Clear	5-gallon (4.5 gallon fill volume)
600 RTS (95UJB00000)	White	10-lb pail

Physical constants:

VOC	49 g/L
Shelf life	12 months

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Version, mixed product

Mixing ratio:	256JB Base 256J9 : Curing Agent 95UJB Ratio changes with temperature; see “600 RTS BPO initiator dosages” chart below
Application method:	Roller or squeegee
Cleaning of tools:	Neogard 800 PMMA Cleaning Agent
Mixing:	Mix thoroughly before use (see “Mixing” below).

600 RTS BPO initiator dosages:	Temperature:	30°F (-1°C)	35°F (2°C)	40°F (4°C)	45°F (7°C)	50°F (10°C)
Note: 25 fluid ounces of BPO equals 1 pound.	Fluid oz/Gallon:	12	11	10	9	8
	Temperature:	55°F (13°C)	60°F (16°C)	65°F (18°C)	70°F (21°C)	
	Fluid oz/Gallon:	7	6	5	4	
	Temperature:	75°F (24°C)	80°F (27°C)	85°F (29°C)	90°F (32°C)	
	Fluid oz/Gallon:	3.5	3	2.5	2	

Safety:	Use with adequate ventilation. Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets, and follow all local or national safety regulations.
Surface preparation:	According to Neogard system Guide Specifications.
Subsequent coat:	According to Neogard system Guide Specifications.
Mixing:	Jiffy Mixer preferred. Mix with 600 RTS for 30–45 seconds or until completely mixed. Note: Extended mixing time will shorten working time of the material.
Storage:	Store at or below 77°F/25°C. Contains paraffin, which may precipitate below 59°F/15°C

Product Data Sheet

100 RTS — Concrete and Metal Primer
256JB: Base 256J9 : Curing Agent 95UJB



Remarks: Clean tools with Neogard 800 RTS PMMA Cleaning Agent only. Other solvents may contaminate PMMA/PUMA coatings, and cause the coating to cure improperly.

Note: **100 RTS is for professional use only.**

Issued by: Hempel (USA) – 256JB

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Product Data Sheet

200 RTS — Membrane

870JB: Base 870J9 : Curing Agent 95UJB



Description:	200 RTS (Hempel 870JB) is a 100% solids, elastomeric polyurethane methacrylate (PUMA) waterproofing membrane.
Recommended use:	As a membrane layer for Neogard RTS vehicular and pedestrian traffic systems. Example applications include: parking garages, stadiums, balconies, plaza decks, pedestrian walkways, rooftop recreational areas, and mechanical rooms.
Features:	Remains elastomeric at low temperatures. Very fast turnaround from application to service. Can be applied at temperatures as low as 23°F/-5°C. Contact Neogard if applying below 30°F/-1°C. Must be mixed with Neogard RTS 600 BPO Initiator (see chart below).
Limitations:	Do not apply to damp or contaminated surfaces. Not intended for use as a topcoat. Do not use with carbonate-based fillers.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

200 RTS (870J900000)	Amber (tintable)	5-gallon (4.5 gallon fill volume)
600 RTS (95UJB00000)	White	10-lb pail

Physical constants:

Tensile strength:	354 psi	ASTM D638
Elongation:	282%	ASTM D638
Shore A:	75	ASTM D2240
Shore D:	25	ASTM D2240
Low-temperature crack bridging:	Pass at 40, 60, 80 mils	ASTM C1305
Volume solids, mixed:	100%	Calculated
VOC:	33 g/L	
Shelf life:	12 months	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Version, mixed product

Mixing ratio:	870JB Base 870J9 : Curing Agent 95UJB Ratio changes with temperature; see "600 RTS BPO initiator dosages" chart below
Application method:	Notched squeegee or gauge rake
Cleaning of tools:	Neogard 800 RTS PMMA Cleaning Agent only (see "Cleaning of tools" below)
Mixing:	Mix thoroughly for 30–45 seconds or until completely mixed (see "Mixing" below)

600 RTS BPO initiator dosages:

Note: 25 fluid ounces of BPO equals 1 pound.

Temperature:	30°F (-1°C)	35°F (2°C)	40°F (4°C)	45°F (7°C)	50°F (10°C)
Fluid oz/Gallon:	12	11	10	9	8
Temperature:	55°F (13°C)	60°F (16°C)	65°F (18°C)	70°F (21°C)	
Fluid oz/Gallon:	7	6	5	4	
Temperature:	75°F (24°C)	80°F (27°C)	85°F (29°C)	90°F (32°C)	
Fluid oz/Gallon:	3.5	3	2.5	2	

Product Data Sheet

200 RTS — Membrane

870JB: Base 870J9 : Curing Agent 95UJB



Safety:	Use with adequate ventilation. Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Surface preparation:	According to Neogard system Guide Specifications.
Preceding coat:	According to Neogard system Guide Specifications.
Subsequent coat:	According to Neogard system Guide Specifications.
Mixing:	Jiffy Mixer preferred. Mix with 600 RTS for 30–45 seconds or until completely mixed. Note: Extended mixing time will shorten working time of the material.
Storage:	Store at or below 77°F/25°C. Protect against direct sunlight. Contains paraffin, which may precipitate below 59°F/15°C.
Cleaning of tools:	Clean tools with Neogard 800 PMMA Cleaning Agent only. Other solvents may contaminate PMMA/PUMA coatings, and cause the coating to cure improperly.

Note: 200 RTS is for professional use only.

Issued by: Hempel (USA) – 870JB

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Product Data Sheet

300 RTS — Flexible Body Coat

871JB: Base 871J9 : Curing Agent 95UJB



Description:	300 RTS (Hempel 871JB) Flexible Body Coat is a 100% solids, elasticized methacrylate (MMA) resin.
Recommended use:	300 RTS is used as a body and/or base coat with Neogard RTS vehicular and pedestrian traffic systems. Example applications include: parking garages, stadiums, balconies, plaza decks, pedestrian walkways, rooftop recreational areas, and mechanical rooms. Can also be used under tile and pavers.
Features:	Remains flexible at low temperatures. Very fast turnaround from application to service. Can be applied at temperatures as low as 23°F/-5°C. Contact Neogard if applying below 30°F/-1°C. Must be mixed with Neogard RTS 600 BPO Initiator (see chart below).
Limitations:	Do not apply to damp or contaminated surfaces. Not intended for use as a topcoat. Do not use with carbonate-based fillers.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

300 RTS (871J900000)	Amber (tintable)	5-gallon (4.5 gallon fill volume)
600 RTS (95UJB00000)	White	10-lb pail

Physical constants:

Tensile strength:	615 psi	ASTM D638
Elongation:	204%	ASTM D638
Shore A:	91	ASTM D2240
Shore D:	41	ASTM D2240
Low-temperature crack bridging:	Pass at 40, 60, 80 mils	ASTM C1305
Permeance:	0.53 US/0.35 Metric Perms	ASTM D1653
MVT:	143.0mg m ² 1 hour, 3.43g m ² 24 hours	ASTM E96
Volume solids, mixed:	100%	Calculated
VOC:	30 g/L	ASTM D2369
Shelf life:	12 months	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Version, mixed product	871JB
Mixing ratio:	Base 871J9 : Curing Agent 95UJB Ratio changes with temperature; see "600 RTS BPO initiator dosages" chart below
Application method:	Notched squeegee or gauge rake
Cleaning of tools:	Neogard 800 RTS PMMA Cleaning Agent only (see "Cleaning of tools" below)
Mixing:	Mix thoroughly 30–45 seconds or until completely mixed (see "Mixing" below)

RTS 600 BPO initiator dosages:	Temperature:	30°F/-1°C	35°F/2°C	40°F/4°C	45°F/7°C	50°F/10°C
	Fluid oz/Gallon:	12	11	10	9	8
	Temperature:	55°F/13°C	60°F/16°C	65°F/18°C	70°F/21°C	
	Fluid oz/Gallon:	7	6	5	4	
	Temperature:	75°F/24°C	80°F/27°C	85°F/29°C	90°F/32°C	
	Fluid oz/Gallon:	3.5	3	2.5	2	

Note: 25 fluid ounces of BPO equals 1 pound.

Product Data Sheet

300 RTS — Flexible Body Coat

871JB: Base 871J9 : Curing Agent 95UJB



Safety:	Use with adequate ventilation. Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Surface preparation:	According to Neogard system Guide Specifications.
Preceding coat:	According to Neogard system Guide Specifications.
Subsequent coat:	According to Neogard system Guide Specifications.
Mixing:	Jiffy Mixer preferred. Mix with 600 RTS for 30–45 seconds or until completely mixed. Note: Extended mixing time will shorten working time of the material.
Storage:	Store at or below 77°F/25°C. Protect against direct sunlight. Contains paraffin, which may precipitate below 59°F/15°C.
Cleaning of tools:	Clean tools with Neogard 800 PMMA Cleaning Agent only. Other solvents may contaminate PMMA/PUMA coatings, and cause the coating to cure improperly.

Note: 300 RTS is for professional use only.

Issued by: Hempel (USA) – 871JB

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Product Data Sheet

400 RTS — Topcoat

872JB: Base 872J9 : Curing Agent 95UJB



Description:	400 RTS Topcoat (Hempel 872JB) is a 100% solids methacrylate (MMA) resin.
Recommended use:	400 RTS is used as a topcoat with Neogard RTS vehicular and pedestrian traffic systems. Example applications include: parking garages, stadiums, balconies, plaza decks, pedestrian walkways, rooftop recreational areas, and mechanical rooms. Can also be used under tile and pavers.
Features:	Excellent resistance to abrasion and superior durability. Very fast turnaround from application to service. Can be applied at temperatures as low as 23°F/-5°C. Contact Neogard if applying below 30°F/-1°C. Must be mixed with Neogard 600 RTS BPO Initiator (see chart below).
Limitations:	Do not apply to damp or contaminated surfaces. Do not use with carbonate-based fillers.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

400 RTS (872J900000)	Clear (tintable)	5-gallon (4.5 gallon fill volume)
600 RTS (95UJB00000)	White	10-lb pail

Physical constants:

Tensile strength:	2,017 psi	ASTM D638
Elongation:	9%	ASTM D638
Shore A:	95	ASTM D2240
Shore D:	60	ASTM D2240
Taber abrasion:	33 mg, 1,000 CS-17	ASTM D4060
Permeance:	0.48 US/0.31 Metric Perm	ASTM 1653
MVT:	159.5mg m ² 1 hour, 3.83g m ² 24 hours	ASTM E96
Volume solids, mixed:	100%	Calculated
VOC:	90 g/L	ASTM D2369
Shelf life:	12 months	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Version, mixed product	872JB
Mixing ratio:	Base 872J9 : Curing Agent 95UJB Ratio changes with temperature; see "600 RTS BPO initiator dosages" chart below
Application method:	Flat squeegee
Cleaning of tools:	Neogard 800 RTS PMMA Cleaning Agent only (see "Cleaning of tools" below)
Mixing:	Mix thoroughly 30–45 seconds or until completely mixed (see "Mixing" below)

RTS 600 BPO initiator dosages:	Temperature:	30°F/-1°C	35°F/2°C	40°F/4°C	45°F/7°C	50°F/10°C
Note: 25 fluid ounces of BPO equals 1 pound.	Fluid oz/Gallon:	6	6	5	5	5
	Temperature:	55°F/13°C	60°F/16°C	65°F/18°C	70°F/21°C	
	Fluid oz/Gallon:	4	4	4	3	
	Temperature:	75°F/24°C	80°F/27°C	85°F/29°C	90°F/32°C	
	Fluid oz/Gallon:	3	3	2.5	2	

Product Data Sheet

400 RTS — Topcoat

872JB: Base 872J9 : Curing Agent 95UJB



Safety:	Use with adequate ventilation. Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Surface preparation:	According to Neogard system Guide Specifications.
Preceding coat:	According to Neogard system Guide Specifications.
Subsequent coat:	According to Neogard system Guide Specifications.
Mixing:	Jiffy Mixer preferred. Mix with 600 RTS for 30–45 seconds or until completely mixed. Note: Extended mixing time will shorten working time of the material.
Storage:	Store at or below 77°F/25°C. Protect against direct sunlight. Contains paraffin, which may precipitate below 59°F/15°C.
Cleaning of tools:	Clean tools with Neogard 800 PMMA Cleaning Agent only. Other solvents may contaminate PMMA/PUMA coatings, and cause the coating to cure improperly.

Note: 400 RTS is for professional use only.

Issued by: Hempel (USA) – 872JB

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Product Data Sheet

600 RTS (95UJB) PMMA/PUMA BPO Initiator



Description:	600 RTS (Hempel 95UJB) is a fine, granular powder.
Recommended use:	600 RTS is used as an initiator/curing agent for Neogard PMMA/PUMA coating products.
Features:	Easy to handle Easy dispersion in PMMA/PUMA liquids Dissolves quickly
Availability:	Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

600 RTS (95UJB00000)	White	10-lb pail
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Physical constants:

Assay	49.0%–51.0%
Water	2.5% maximum
<i>The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.</i>	

Application details:

Mixing:	Jiffy Mixer preferred. Mix with 100 RTS, 200 RTS, 300 RTS, or 400 RTS for 30–45 seconds or until completely mixed. Note: Extended mixing time will shorten working time of the material.
Dosage rate:	Refer to the dosage chart below, or on 100 RTS, 200 RTS, 300 RTS, and 400 RTS Product Data Sheets for correct dosage. Dosage rates change based upon ambient air temperature.
Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Storage:	Store at or below 77°F/25°C. Protect against direct sunlight.

BPO Initiator Dosage by Ambient Air Temperature (fluid ounces per gallon)													
Product	30°F (-1°C)	35°F (2°C)	40°F (4°C)	45°F (7°C)	50°F (10°C)	55°F (13°C)	60°F (16°C)	65°F (18°C)	70°F (21°C)	75°F (24°C)	80°F (27°C)	85°F (29°C)	90°F (32°C)
100 RTS	12	11	10	9	8	7	6	5	4	3.5	3	2.5	2
200 RTS	12	11	10	9	8	7	6	5	4	3.5	3	2.5	2
300 RTS	12	11	10	9	8	7	6	5	4	3.5	3	2.5	2
400 RTS	6	6	5	5	5	4	4	4	3	3	3	2.5	2

Product Data Sheet

600 RTS (95UJB)

PMMA/PUMA BPO Initiator



Note: **600 RTS is for professional use only.**

Issued by: Hempel (USA) – 95UJB

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2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

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Product Data Sheet

700 RTS (63YJB) PMMA/PUMA Pigment



Description:	700 RTS series (Hempel 63YJB) is a powdered additive pigment.
Recommended use:	To provide color for 200 RTS Elastomeric Waterproofing Membrane, 300 RTS Flexible Body Coat, and 400 RTS Topcoat materials.
Features:	Resealable, hassle-free packaging Easy to handle Easy to mix with RTS liquids
Availability:	Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

700 RTS (63YJB10400)	Silver Grey	8-oz (0.5 lb), in jars
702 RTS (63YJB10270)	Dark Grey	
711 RTS (63YJB6191)	Brown Beige	
712 RTS (63YJB27110)	Beige	
<i>Some standard colors and/or packaging may have extended lead times and/or minimum quantities.</i>		

Application details:

Mixing:	Mix with 200, 300, or 400 RTS
Mix ratio:	4 ounces (0.25 lb) per gallon of 200, 300, or 400 RTS
Safety:	Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Note: 700 RTS is for professional use only.

Issued by: Hempel (USA) – 63YJB

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Product Data Sheet

800 RTS (66ZJB)

PMMA/PUMA Cleaning Agent



Description:	800 RTS (Hempel 66ZJB) is a methacrylic reactive thinner.	
Recommended use:	Thinning or adjusting viscosity of Neogard PMMA/PUMA coating materials, and cleaning of tools used for application of PMMA/PUMA materials.	
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.	
Colors and packaging:		
800 RTS (66ZJB99980)	Clear	5-gallon (full fill)
Safety:	Use with adequate ventilation. Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.	
Storage:	Store at or below 77°F/25°C. Protect against direct sunlight. Shelf life: 6 months minimum	

Note: 800 RTS is for professional use only.

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Product Data Sheet

900 RTS (63ZJB)

Quartz Sand/Barite Aggregate



Description:	900 RTS (Hempel 63ZJB) is a quartz/barite sand aggregate.
Recommended use:	As a filler in Neogard fluid-applied RTS PMMA/PUMA coating systems.
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

900 RTS (63ZJB99980)	Gray	55-lb bag
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Physical constants:

Generic Type	Quartz/barite sand
pH	Neutral
Bulk density	1.5 g/L approximate
Specific gravity	2.6 g/L approximate
Melting point	>1,200°F/600°C
<i>The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.</i>	
Sieve #	Percent retained
> 20	2.0
20–35	42.0
35–120	14.0
< 120	42.0

Application details:

Application method:	Mixed with RTS fluid-applied materials, rate according to Neogard RTS system Guide Specifications.
Safety:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.
Storage:	Store in a dry area.

Note: 900 RTS is for professional use only.

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Product Data Sheet

650 RTS (996JB) PMMA/PUMA Winter Accelerator



WARNING:

Avoid direct contact between 650 RTS and 600 RTS BPO Initiator. 650 RTS and 600 RTS **may combust** if directly combined.

- Always store 650 RTS and 600 RTS separately.
- Always use separate measuring cups for 650 RTS and 600 RTS.

Description:

650 RTS (Hempel 996JB) is an additional activator which speeds curing of Neogard RTS PMMA/PUMA coatings in extreme cold conditions.

Service temperatures:

Use only in temperatures between -20°F/-29°C to 40°F/4°C.

Availability:

Available in North America. Not included in Group Assortment. Availability subject to confirmation.

Colors and packaging:

650 RTS (996JB00000)	Clear	0.25 gal cans
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Physical constants:

Viscosity, 75°F/23°C:	< 10 cps	Brookfield DV2, sp. 1/30 rpm
Density, 68°F/20°C:	7.84 lb/gal/94 g/L	DIN 51757
Flash point:	181°F/83°C	DIN 51755
Shelf life:	12 months, unopened	

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

Application details:

Mixing:

1. Allow 100 RTS, 200 RTS, 300 RTS, or 400 RTS resins and 900 RTS filler (if used) to cool to near 40°F/4°C in advance of mixing/applying. Unless cooled, pot life will be very short.
2. Add 650 RTS with the cooled 100 RTS, 200 RTS, 300 RTS, or 400 RTS resins.
3. 650 RTS dosage is dependent on ambient temperature during application of RTS material:
 - 11°F/-12°C to 40°F/4°C: 0.75 fl oz/gal (5.8 ml/liter).
 - -20°F/-29°C to 10°F/-12°C: 1.50 fl oz/gal (11.7 ml/liter).
4. Mix for a minimum of 3 minutes. Jiffy Mixer recommended.
5. Mix 600 RTS BPO Initiator with the mixed 650 RTS and RTS resin.

Safety:

Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Application conditions:

Prepare the substrate in the same manner as for normal temperatures. Ensure that no ice has formed on the substrate.

Storage:

Store between 59°F/15°C – 77°F/25°C. Protect against direct sunlight.

Remarks:

650 RTS will cause slight yellowing of cured RTS materials, including material mixed with 700 RTS pigment. Yellowing will be less visible in pigmented material.

Product Data Sheet

650 RTS (996JB)

PMMA/PUMA Winter Accelerator



Note: **650 RTS is for professional use only.**

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